

## **NATIONAL TURFGRASS EVALUATION PROGRAM**

The National Turfgrass Evaluation Program (NTEP) is designed to develop and coordinate uniform evaluation trials of turfgrass varieties and promising selections in the United States and Canada. Test results can be used by national companies and plant breeders to determine the broad picture of the adaptation of a cultivar. Results can also be used to determine if a cultivar is well adapted to a local area or level of turf maintenance.

Briefly, the NTEP is a self-supporting, non-profit program, sponsored by the Beltsville Agricultural Research Center and the National Turfgrass Federation, Inc. Program policy is made by a policy committee consisting of one member from each of the four (4) Regional Turfgrass Research Committees in the United States, one member from the Lawn Seed Division of the American Seed Trade Association, one member from the United States Golf Association (USGA) Green Section, one member from the Golf Course Superintendents Assoc. of America (GCSAA), one member for the Turfgrass Producers International (TPI), one member from the Turfgrass Breeders Association and an executive director. The program does not make variety recommendations. However, the data from tests can be used by extension specialists and others for making recommendations.

The policy committee is responsible for determining program policy including, (1) requirements for submission of entries, (2) scheduling tests, (3) evaluation methods, (4) selecting standard or control test entries, (5) setting entry fees, (6) coordinating tests in their respective regions, (7) establishing guidelines for publication and data distribution and (8) scheduling committee meetings.

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## A Guide to NTEP Turfgrass Ratings

### Introduction

The quality and scientific merit of NTEP data is extremely important. However, the evaluation of turfgrass species and cultivars is a difficult and complex issue. Furthermore, turfgrass evaluation is generally a subjective process based on visual estimates of factors, like genetic color, stand density, leaf texture, uniformity and quality. These factors can not be measured in the same way as other agricultural crops. Turfgrass quality is not a measure of yield or nutritive value. Turfgrass quality is a measure of aesthetics (i.e. density, uniformity, texture, smoothness, growth habit and color), and functional use. The most common way of assessing turfgrass quality is a visual rating system that is based on the turfgrass evaluator's judgement.

### General Considerations

Most visual ratings collected on NTEP trials are based on a 1 to 9 rating scale. One is the poorest or lowest and 9 is the best or highest rating. However, a few characteristics, such as winter kill or percent living ground cover, are rated on a percentage basis, again by using the evaluator's judgement. Most disease ratings found in NTEP reports will use the 1-9 scale, 9=no disease except where the evaluator made a judgement of the percentage of disease in each plot. Percent disease data will be found in separate tables and will normally not be included with disease data using the 1-9 scale.

### Turfgrass Quality

Turfgrass Quality is based on 9 being outstanding or ideal turf and 1 being poorest or dead. A rating of 6 or above is generally considered acceptable. A quality rating value of 9 is reserved for a perfect or ideal grass, but it also can reflect an absolutely outstanding treatment plot. The NTEP requires quality ratings on a monthly basis. Quality ratings take into account the aesthetic and functional aspects of the turf. Quality ratings are not based on color alone, but on a combination of color, density, uniformity, texture, and disease or environmental stress.

Turfgrass quality ratings are grouped and presented by region, management level, a particular stress (shade, traffic, etc.) and in some cases, by individual location (starting with 2002 data, data from each location will be posted separately as well on the NTEP web site, <http://www.ntep.org>). Also available now is a summary table (Appendix) in the back of this report. This summary table includes various statistical measures not previously compiled for NTEP reports. For an explanation of this table and these changes, please go to the NTEP web site at <http://www.ntep.org/pdf/grandmean.mem.pdf>.

### Other Ratings

More detailed information on the ratings of specific characteristics can be found on the NTEP web site at <http://www.ntep.org/reports/ratings.htm>.

## 2008 NATIONAL FINELEAF FESCUE TEST

### LOCATIONS SUBMITTING DATA FOR 2011

<u>State</u>	<u>Location</u>	<u>Code</u>
California	Palo Alto (Non-Mowed)	CA8
Illinois	Urbana	IL1
Illinois	Carbondale (Shade)	IL2
Maryland	College Park	MD1
Minnesota	St. Paul	MN1
Minnesota	St. Paul (Traffic)	MN2
Nebraska	Mead	NE1
New Jersey	Adelphia	NJ2
New York	Ithaca	NY1
Pennsylvania	University Park	PA1
Rhode Island	Kingston	RI1
Utah	Logan	UT1
Virginia	Blacksburg	VA1
Washington	Puyallup	WA3
Wisconsin	Madison (Traffic)	WI1

2008 NATIONAL FINELEAF FESCUE TEST

Entries and Sponsors

Entry No.	Name	Species	Sponsor
* 1	Treazure II	chewings	Standard entry
* 2	Boreal	strong creeping red	Standard entry
* 3	Spartan II	hard	Standard entry
* 4	Intrigue 2	chewings	Turf Merchants
* 5	Zodiac	chewings	Standard entry
6	Navigator II (MVS-OS-1)	strong creeping red	Mountain View Seeds
7	Beacon (Z6300)	hard	Mountain View Seeds
8	Radar (MVS-FRC-101)	chewings	Mountain View Seeds
9	Fairmont (TCD)	chewings	Dye Seed Ranch
10	PSG 50C3	chewings	Seed Research of Oregon
11	Sword (NC-HF1)	hard	Columbia River Seeds
* 12	Epic	strong creeping red	Standard entry
* 13	Gotham	hard	John Deere Landscapes
* 14	Lacrosse	chewings	John Deere Landscapes
15	IS-FRR-51	strong creeping red	DLF International Seeds
16	IS-FRR-62	strong creeping red	DLF International Seeds
* 17	Wrigley 2 (IS-FRC-35)	chewings	DLF International Seeds
* 18	Longfellow 3 (IS-FRC-33)	Chewings	DLF International Seeds
* 19	Cascade	chewings	Standard entry
* 20	Aberdeen	strong creeping red	Brett-Young Seeds
21	PST-4CSD	chewings	Silverton Seed
22	PST-4HES	hard	Pure-Seed Testing
* 23	Bighorn GT (ST-4BU3)	blue hard	Pure Seed
24	Shademaster III (PST-48Y7)	strong creeping red	The Scotts Company
25	PSG-5RM	strong creeping red	The Scotts Co.

\* COMMERCIALY AVAILABLE IN THE USA IN 2011.



TABLE A.

2011 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN  
THE 2008 NATIONAL FINELEAF FESCUE TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
CA8	LOAM	6.6-7.0	61-150	0-150	3.1-4.0	FULL SUN	4.1+	TO PREVENT STRESS
IL1	SILT LOAM AND SILT	6.1-6.5	0-60	376-500	1.1-2.0	FULL SUN	2.6-3.0	NO IRRIGATION
IL2	SILTY CLAY LOAM	6.1-6.5	0-60	151-240	1.1-2.0	UNIFORM SHADE	2.1-2.5	NO IRRIGATION
MD1	SILT LOAM AND SILT	5.6-6.0	61-150	151-240	0.0-1.0	FULL SUN	2.6-3.0	NO IRRIGATION
MN1	SILTY CLAY LOAM	7.1-7.5	61-150	151-240	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
MN2	SILTY CLAY LOAM	7.1-7.5	61-150	151-240	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
NE1	SILTY CLAY AND CLAY	6.6-7.0	0-60	501+	1.1-2.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
NJ2	SANDY LOAM	6.6-7.0	271-450	151-240	0.0-1.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
NY1	SANDY LOAM	6.1-6.5	151-270	241-375	1.1-2.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
PA1	LOAM	6.1-6.5	61-150	151-240	1.1-2.0	FULL SUN	2.6-3.0	ONLY DURING SEVERE STRESS
RI1	SILT LOAM AND SILT	-	-	-	1.1-2.0	FULL SUN	1.6-2.0	NO IRRIGATION
UT1	-	-	-	-	-	-	-	-
VA1	SILT LOAM AND SILT	5.6-6.0	0-60	0-150	1.1-2.0	LIGHT SHADE	2.6-3.0	ONLY DURING SEVERE STRESS
WA3	SAND	6.1-6.5	0-60	0-150	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT DORMANCY
WI1	SILT LOAM AND SILT	6.6-7.0	0-60	241-375	1.1-2.0	FULL SUN	0.6-1.0	TO PREVENT DORMANCY

TABLE B.

## LOCATIONS AND DATA COLLECTED IN 2011

LOCATION	JANUARY QUALITY RATING	FEBRUARY QUALITY RATING	MARCH QUALITY RATING	APRIL QUALITY RATING	MAY QUALITY RATING	JUNE QUALITY RATING	JULY QUALITY RATING	AUGUST QUALITY RATING	SEPTEMBER QUALITY RATING	OCTOBER QUALITY RATING	NOVEMBER QUALITY RATING	DECEMBER QUALITY RATING	GENETIC COLOR	SPRING GREENUP
CA8	X	X	X	X	X	X	X	X	X	X	X	X		
IL1				X	X	X	X	X	X	X			X	X
IL2			X	X	X	X	X	X	X	X	X	X		
MD1				X	X	X	X	X	X	X	X			
MN1					X	X	X	X	X	X			X	
MN2					X	X	X	X	X	X			X	
NE1					X	X	X	X	X	X	X		X	X
NJ2				X	X	X	X	X	X	X			X	X
NY1					X	X	X	X	X	X				X
PA1				X	X	X	X	X	X	X			X	
RI1				X	X	X	X	X	X	X	X			X
UT1					X	X	X	X	X	X			X	X
VA1		X	X	X	X	X	X	X		X			X	
WA3	X	X	X	X	X	X	X	X	X	X	X	X	X	
WI1					X	X	X	X	X	X				X

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2011

LOCATION	SPRING DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	PERCENT WINTER KILL	DOLLAR SPOT	RED THREAD	RED THREAD RATINGS		
									APRIL	MAY	JUNE
CA8											
IL1				X							
IL2			X								
MD1		X									
MN1		X	X	X		X					
MN2		X	X	X		X					
NE1			X								
NJ2				X			X				
NY1								X			
PA1							X	X			
RI1		X	X				X				
UT1											
VA1	X										
WA3					X				X	X	X
WI1		X		X							

TABLE 1A. TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
GROWN AT FIVE LOCATIONS IN THE U.S. FOR AMMI GROUP 1 \*\*/  
2011 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	NJ1	MD1	NY1	VA1	WA3	MEAN
* SPARTAN II	5.9	5.0	5.3	6.6	5.9	5.7
BEACON (Z6300)	5.4	5.1	5.2	6.3	5.6	5.5
* GOTHAM	5.2	4.6	5.1	6.4	5.6	5.4
SWORD (NC-HF1)	5.5	4.7	4.9	6.2	5.5	5.4
PST-4HES	5.0	4.7	5.3	6.3	5.5	5.4
* BIGHORN GT (PST-4BU3)	4.2	4.3	5.1	6.1	5.2	5.0
NAVIGATOR II (MVS-OS-1)	4.8	3.6	4.5	6.4	5.0	4.9
PSG-5RM	5.3	3.6	4.1	6.2	4.9	4.8
RADAR (MVS-FRC-101)	5.1	4.1	4.1	5.8	4.7	4.8
* LONGFELLOW 3 (IS-FRC-33)	5.0	4.0	4.1	5.8	4.7	4.7
PSG 50C3	4.7	3.9	4.1	5.7	4.5	4.6
IS-FRR-62	4.8	3.2	4.0	6.1	4.7	4.6
* ZODIAC	4.5	3.8	4.1	5.7	4.5	4.5
* INTRIGUE 2	4.6	3.8	4.0	5.5	4.4	4.5
* WRIGLEY 2 (IS-FRC-35)	4.7	3.7	3.8	5.6	4.4	4.4
IS-FRR-51	4.2	3.2	4.1	6.0	4.6	4.4
FAIRMONT (TCD)	4.7	3.7	3.8	5.5	4.3	4.4
SHADEMASTER III (PST-48Y7)	4.2	3.2	4.1	5.9	4.5	4.4
* LACROSSE	4.3	3.6	4.0	5.5	4.4	4.4
* TREAZURE II	4.3	3.7	4.0	5.5	4.3	4.3
PST-4CSD	4.4	3.3	3.7	5.5	4.3	4.2
* CASCADE	3.8	3.2	3.9	5.4	4.2	4.1
* EPIC	3.5	2.8	3.9	5.6	4.2	4.0
* ABERDEEN	3.2	2.6	3.7	5.4	4.0	3.8
* BOREAL	2.4	2.3	3.8	5.1	3.8	3.5
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	12.5	15.3	13.4	9.8	12.1	12.4

\* COMMERCIALY AVAILABLE IN THE USA IN 2012.

\*\*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS AMMI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE AN AMMI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON AMMI, GO TO [WWW.NTEP.OR/AMMI\\_Q&A.PDF](http://WWW.NTEP.OR/AMMI_Q&A.PDF)

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 1B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
 GROWN AT FIVE LOCATIONS IN THE U.S. FOR AMMI GROUP 1 \*/  
 2011 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	NJ1	MD1	NY1	VA1	WA3	MEAN
RADAR (MVS-FRC-101)	5.1	4.1	4.1	5.8	4.7	4.8
LONGFELLOW 3 (IS-FRC-33)	5.0	4.0	4.1	5.8	4.7	4.7
PSG 50C3	4.7	3.9	4.1	5.7	4.5	4.6
ZODIAC	4.5	3.8	4.1	5.7	4.5	4.5
INTRIGUE 2	4.6	3.8	4.0	5.5	4.4	4.5
WRIGLEY 2 (IS-FRC-35)	4.7	3.7	3.8	5.6	4.4	4.4
FAIRMONT (TCD)	4.7	3.7	3.8	5.5	4.3	4.4
LACROSSE	4.3	3.6	4.0	5.5	4.4	4.4
TREAZURE II	4.3	3.7	4.0	5.5	4.3	4.3
PST-4CSD	4.4	3.3	3.7	5.5	4.3	4.2
CASCADE	3.8	3.2	3.9	5.4	4.2	4.1
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	12.5	15.4	14.4	10.2	12.9	12.8

\*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS AMMI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE AN AMMI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON AMMI, GO TO [WWW.NTEP.OR/AMMI\\_Q&A.PDF](http://WWW.NTEP.OR/AMMI_Q&A.PDF)

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 1C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
GROWN AT FIVE LOCATIONS IN THE U.S. FOR AMMI GROUP 1 \*/  
2011 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	NJ1	MD1	NY1	VA1	WA3	MEAN
NAVIGATOR II (MVS-OS-1)	4.8	3.6	4.5	6.4	5.0	4.9
PSG-5RM	5.3	3.6	4.1	6.2	4.9	4.8
IS-FRR-62	4.8	3.2	4.0	6.1	4.7	4.6
IS-FRR-51	4.2	3.2	4.1	6.0	4.6	4.4
SHADEMASTER III (PST-48Y7)	4.2	3.2	4.1	5.9	4.5	4.4
EPIC	3.5	2.8	3.9	5.6	4.2	4.0
ABERDEEN	3.2	2.6	3.7	5.4	4.0	3.8
BOREAL	2.4	2.3	3.8	5.1	3.8	3.5
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	12.5	14.8	13.2	10.1	12.2	12.4

TABLE 1D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/  
GROWN AT FIVE LOCATIONS IN THE U.S. FOR AMMI GROUP 1 \*/  
2011 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	NJ1	MD1	NY1	VA1	WA3	MEAN
SPARTAN II	5.9	5.0	5.3	6.6	5.9	5.7
BEACON (Z6300)	5.4	5.1	5.2	6.3	5.6	5.5
GOTHAM	5.2	4.6	5.1	6.4	5.6	5.4
SWORD (NC-HF1)	5.5	4.7	4.9	6.2	5.5	5.4
PST-4HES	5.0	4.7	5.3	6.3	5.5	5.4
BIGHORN GT (PST-4BU3)	4.2	4.3	5.1	6.1	5.2	5.0
LSD VALUE	0.9	0.9	0.9	0.9	0.9	0.9
C.V. (%)	11.0	12.1	11.1	9.1	10.3	10.6

\*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS AMMI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE AN AMMI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON AMMI, GO TO [WWW.NTEP.OR/AMMI\\_Q&A.PDF](http://WWW.NTEP.OR/AMMI_Q&A.PDF)

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 2A. TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 \*/  
2011 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	PA1	RI1	MN1	MEAN
PSG 50C3	6.5	8.1	7.0	7.2
RADAR (MVS-FRC-101)	6.6	8.5	6.2	7.1
FAIRMONT (TCD)	6.4	8.2	6.3	7.0
ZODIAC	6.1	7.5	6.8	6.8
TREAZURE II	6.0	7.4	6.8	6.8
LONGFELLOW 3 (IS-FRC-33)	6.2	7.9	5.9	6.7
INTRIGUE 2	5.9	7.5	6.2	6.6
WRIGLEY 2 (IS-FRC-35)	6.0	7.7	5.7	6.5
LACROSSE	5.7	7.0	6.4	6.4
PSG-5RM	6.0	7.6	4.8	6.1
BEACON (Z6300)	5.4	7.1	5.7	6.1
PST-4CSD	5.1	6.5	4.9	5.5
NAVIGATOR II (MVS-OS-1)	5.1	5.9	5.5	5.5
CASCADE	4.8	5.7	5.9	5.5
SWORD (NC-HF1)	4.8	6.7	4.2	5.2
IS-FRR-51	4.7	5.4	5.5	5.2
IS-FRR-62	5.0	6.1	4.4	5.2
SHADEMASTER III (PST-48Y7)	4.7	5.4	5.3	5.2
PST-4HES	4.4	5.6	5.3	5.1
BIGHORN GT (PST-4BU3)	4.1	4.8	6.1	5.0
EPIC	4.2	4.6	5.9	4.9
SPARTAN II	4.6	6.4	3.6	4.9
GOTHAM	4.3	5.7	4.3	4.8
ABERDEEN	3.7	4.0	5.4	4.4
BOREAL	2.4	2.1	5.3	3.3
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	11.1	9.0	10.2	10.0

\*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS AMMI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE AN AMMI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON AMMI, GO TO [WWW.NTEP.OR/AMMI\\_Q&A.PDF](http://WWW.NTEP.OR/AMMI_Q&A.PDF)

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 2B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
 GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 \*/  
 2011 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	PA1	RI1	MN1	MEAN
PSG 50C3	6.5	8.1	7.0	7.2
RADAR (MVS-FRC-101)	6.6	8.5	6.2	7.1
FAIRMONT (TCD)	6.4	8.2	6.3	7.0
ZODIAC	6.1	7.5	6.8	6.8
TREAZURE II	6.0	7.4	6.8	6.8
LONGFELLOW 3 (IS-FRC-33)	6.2	7.9	5.9	6.7
INTRIGUE 2	5.9	7.5	6.2	6.6
WRIGLEY 2 (IS-FRC-35)	6.0	7.7	5.7	6.5
LACROSSE	5.7	7.0	6.4	6.4
PST-4CSD	5.1	6.5	4.9	5.5
CASCADE	4.8	5.7	5.9	5.5
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	9.6	7.6	9.2	8.7

\*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS AMMI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE AN AMMI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON AMMI, GO TO [WWW.NTEP.OR/AMMI\\_Q&A.PDF](http://WWW.NTEP.OR/AMMI_Q&A.PDF)

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2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.



TABLE 2C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 \*/  
2011 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	PA1	RI1	MN1	MEAN
PSG-5RM	6.0	7.6	4.8	6.1
NAVIGATOR II (MVS-OS-1)	5.1	5.9	5.5	5.5
IS-FRR-51	4.7	5.4	5.5	5.2
IS-FRR-62	5.0	6.1	4.4	5.2
SHADEMASTER III (PST-48Y7)	4.7	5.4	5.3	5.2
EPIC	4.2	4.6	5.9	4.9
ABERDEEN	3.7	4.0	5.4	4.4
BOREAL	2.4	2.1	5.3	3.3
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	12.8	11.1	10.9	11.5

TABLE 2D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/  
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 \*/  
2011 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	PA1	RI1	MN1	MEAN
BEACON (Z6300)	5.4	7.1	5.7	6.1
SWORD (NC-HF1)	4.8	6.7	4.2	5.2
PST-4HES	4.4	5.6	5.3	5.1
BIGHORN GT (PST-4BU3)	4.1	4.8	6.1	5.0
SPARTAN II	4.6	6.4	3.6	4.9
GOTHAM	4.3	5.7	4.3	4.8
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	12.5	9.5	11.8	11.1

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2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 3A. TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 3 \*/  
2011 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IL1	NE1	UT1	MEAN
NAVIGATOR II (MVS-OS-1)	5.0	4.4	7.8	5.7
PSG-5RM	5.3	4.0	7.7	5.7
IS-FRR-62	5.2	4.0	7.7	5.7
IS-FRR-51	4.9	4.2	7.4	5.5
SHADEMASTER III (PST-48Y7)	4.6	4.0	7.3	5.3
EPIC	4.5	4.1	6.9	5.2
PSG 50C3	4.7	4.0	6.8	5.1
ZODIAC	4.5	3.9	6.8	5.1
LONGFELLOW 3 (IS-FRC-33)	4.2	3.6	6.9	4.9
RADAR (MVS-FRC-101)	4.3	3.6	6.9	4.9
FAIRMONT (TCD)	4.4	3.6	6.6	4.9
ABERDEEN	4.1	3.7	6.7	4.9
WRIGLEY 2 (IS-FRC-35)	4.2	3.4	6.7	4.8
TREAZURE II	4.1	3.7	6.5	4.8
LACROSSE	4.0	3.5	6.5	4.7
CASCADE	3.9	3.5	6.5	4.7
INTRIGUE 2	3.9	3.4	6.6	4.6
PST-4CSD	3.9	3.2	6.7	4.6
BIGHORN GT (PST-4BU3)	2.5	3.3	6.8	4.2
BOREAL	3.0	3.3	6.2	4.2
PST-4HES	2.2	2.9	6.9	4.0
BEACON (Z6300)	2.2	2.8	6.8	3.9
GOTHAM	2.1	2.6	7.1	3.9
SPARTAN II	2.0	2.4	7.3	3.9
SWORD (NC-HF1)	2.0	2.4	6.9	3.8
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	14.9	16.4	8.3	12.0

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2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 3B. TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 3 \*/  
2011 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IL1	NE1	UT1	MEAN
PSG 50C3	4.7	4.0	6.8	5.1
ZODIAC	4.5	3.9	6.8	5.1
LONGFELLOW 3 (IS-FRC-33)	4.2	3.6	6.9	4.9
RADAR (MVS-FRC-101)	4.3	3.6	6.9	4.9
FAIRMONT (TCD)	4.4	3.6	6.6	4.9
WRIGLEY 2 (IS-FRC-35)	4.2	3.4	6.7	4.8
TREAZURE II	4.1	3.7	6.5	4.8
LACROSSE	4.0	3.5	6.5	4.7
CASCADE	3.9	3.5	6.5	4.7
INTRIGUE 2	3.9	3.4	6.6	4.6
PST-4CSD	3.9	3.2	6.7	4.6
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	13.7	16.0	8.5	11.9

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2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 3C. TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 3 \*/  
2011 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IL1	NE1	UT1	MEAN
NAVIGATOR II (MVS-OS-1)	5.0	4.4	7.8	5.7
PSG-5RM	5.3	4.0	7.7	5.7
IS-FRR-62	5.2	4.0	7.7	5.7
IS-FRR-51	4.9	4.2	7.4	5.5
SHADEMASTER III (PST-48Y7)	4.6	4.0	7.3	5.3
EPIC	4.5	4.1	6.9	5.2
ABERDEEN	4.1	3.7	6.7	4.9
BOREAL	3.0	3.3	6.2	4.2
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	12.5	14.4	7.9	10.9

TABLE 3D. TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS 1/  
GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 3 \*/  
2011 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IL1	NE1	UT1	MEAN
BIGHORN GT (PST-4BU3)	2.5	3.3	6.8	4.2
PST-4HES	2.2	2.9	6.9	4.0
BEACON (Z6300)	2.2	2.8	6.8	3.9
GOTHAM	2.1	2.6	7.1	3.9
SPARTAN II	2.0	2.4	7.3	3.9
SWORD (NC-HF1)	2.0	2.4	6.9	3.8
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	26.4	21.0	8.2	14.5

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2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 4A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS  
GROWN UNDER SHADE AT CARBONDALE, IL 1/  
2011 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER SUMMER	QUALITY RATINGS										MEAN
		MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
GOTHAM	80.0	4.7	4.7	5.3	6.7	6.3	6.0	5.3	6.7	6.3	6.7	5.9
BEACON (Z6300)	66.7	4.3	4.0	5.0	6.3	6.7	6.3	6.0	5.7	6.0	6.3	5.7
PSG 50C3	83.7	4.0	4.3	6.0	6.0	6.3	6.7	6.0	5.7	5.3	5.3	5.6
RADAR (MVS-FRC-101)	69.0	4.7	4.0	5.7	6.0	6.0	5.3	6.0	5.3	6.0	6.3	5.5
BIGHORN GT (PST-4BU3)	65.0	3.7	4.0	5.0	5.7	5.7	6.0	5.7	5.7	5.7	6.0	5.3
SPARTAN II	70.3	4.0	4.3	5.3	6.0	5.7	5.7	5.7	5.0	4.7	6.0	5.2
PST-4HES	56.7	4.7	3.7	4.7	5.3	5.3	4.3	5.0	6.3	5.7	6.3	5.1
FAIRMONT (TCD)	65.7	3.7	4.7	5.7	5.0	5.3	5.7	5.7	4.3	4.3	5.0	4.9
SWORD (NC-HF1)	55.3	4.3	4.0	4.3	5.0	5.7	5.0	4.7	6.3	4.7	5.0	4.9
WRIGLEY 2 (IS-FRC-35)	67.3	3.7	3.7	5.7	4.3	5.3	6.0	5.3	5.0	4.7	5.0	4.9
ZODIAC	62.7	3.0	3.3	5.0	5.3	5.7	5.7	5.7	4.7	5.0	4.7	4.8
LONGFELLOW 3 (IS-FRC-33)	52.7	3.7	3.3	4.7	4.3	5.3	5.7	4.7	4.7	4.7	4.7	4.6
TREAZURE II	47.7	3.7	3.7	5.3	4.0	4.3	3.7	5.0	4.0	4.7	4.7	4.3
CASCADE	51.3	3.3	3.3	4.0	4.0	4.7	4.0	4.0	4.0	4.3	4.0	4.0
PSG-5RM	49.0	3.0	2.3	4.3	4.3	4.0	4.3	4.0	3.3	4.3	3.7	3.8
NAVIGATOR II (MVS-OS-1)	47.7	3.3	3.0	4.3	4.3	4.0	3.7	3.7	3.3	3.7	4.0	3.7
INTRIGUE 2	43.0	2.7	3.3	4.3	4.0	4.0	4.0	3.3	3.7	3.3	3.7	3.6
IS-FRR-51	39.0	2.7	2.7	4.0	3.7	4.0	3.7	3.3	3.0	3.7	4.0	3.5
EPIC	37.7	3.0	2.3	3.0	3.7	3.3	3.7	3.3	4.0	3.7	4.0	3.4
PST-4CSD	37.7	3.3	2.7	4.7	3.0	4.0	3.7	3.3	3.0	3.3	3.3	3.4
LACROSSE	36.0	3.0	3.7	4.3	3.7	3.3	3.0	2.3	2.3	2.0	3.0	3.1
IS-FRR-62	28.0	3.0	2.3	3.0	2.7	3.3	3.0	3.0	2.7	3.3	3.7	3.0
SHADEMASTER III (PST-48Y7)	36.3	2.7	2.3	4.0	3.3	3.7	3.3	2.7	2.7	2.7	2.7	3.0
ABERDEEN	17.3	2.3	1.3	3.0	2.7	3.0	2.3	2.3	3.0	2.3	2.7	2.5
BOREAL	17.3	2.3	2.7	3.0	1.3	3.0	2.7	1.7	2.3	2.7	2.0	2.4
LSD VALUE	45.8	2.1	1.9	2.8	2.8	3.3	2.6	2.5	2.5	2.3	2.9	2.1
C.V. (%)	41.9	26.4	28.6	26.3	32.4	30.9	29.7	31.3	31.6	28.5	32.2	26.0

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.  
STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 4B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS  
GROWN UNDER SHADE AT CARBONDALE, IL 1/  
2011 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER SUMMER	QUALITY RATINGS										MEAN
		MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PSG 50C3	83.7	4.0	4.3	6.0	6.0	6.3	6.7	6.0	5.7	5.3	5.3	5.6
RADAR (MVS-FRC-101)	69.0	4.7	4.0	5.7	6.0	6.0	5.3	6.0	5.3	6.0	6.3	5.5
FAIRMONT (TCD)	65.7	3.7	4.7	5.7	5.0	5.3	5.7	5.7	4.3	4.3	5.0	4.9
WRIGLEY 2 (IS-FRC-35)	67.3	3.7	3.7	5.7	4.3	5.3	6.0	5.3	5.0	4.7	5.0	4.9
ZODIAC	62.7	3.0	3.3	5.0	5.3	5.7	5.7	5.7	4.7	5.0	4.7	4.8
LONGFELLOW 3 (IS-FRC-33)	52.7	3.7	3.3	4.7	4.3	5.3	5.7	4.7	4.7	4.7	4.7	4.6
TREAZURE II	47.7	3.7	3.7	5.3	4.0	4.3	3.7	5.0	4.0	4.7	4.7	4.3
CASCADE	51.3	3.3	3.3	4.0	4.0	4.7	4.0	4.0	4.0	4.3	4.0	4.0
INTRIGUE 2	43.0	2.7	3.3	4.3	4.0	4.0	4.0	3.3	3.7	3.3	3.7	3.6
PST-4CSD	37.7	3.3	2.7	4.7	3.0	4.0	3.7	3.3	3.0	3.3	3.3	3.4
LACROSSE	36.0	3.0	3.7	4.3	3.7	3.3	3.0	2.3	2.3	2.0	3.0	3.1
LSD VALUE	47.5	1.1	2.3	3.0	2.7	2.8	2.6	3.0	3.1	2.6	2.5	2.1
C.V. (%)	36.4	15.8	24.8	22.7	27.0	25.0	26.8	30.6	31.7	29.0	25.4	22.4

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 4C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  
GROWN UNDER SHADE AT CARBONDALE, IL 1/  
2011 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER SUMMER	QUALITY RATINGS										MEAN
		MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PSG-5RM	49.0	3.0	2.3	4.3	4.3	4.0	4.3	4.0	3.3	4.3	3.7	3.8
NAVIGATOR II (MVS-OS-1)	47.7	3.3	3.0	4.3	4.3	4.0	3.7	3.7	3.3	3.7	4.0	3.7
IS-FRR-51	39.0	2.7	2.7	4.0	3.7	4.0	3.7	3.3	3.0	3.7	4.0	3.5
EPIC	37.7	3.0	2.3	3.0	3.7	3.3	3.7	3.3	4.0	3.7	4.0	3.4
IS-FRR-62	28.0	3.0	2.3	3.0	2.7	3.3	3.0	3.0	2.7	3.3	3.7	3.0
SHADEMASTER III (PST-48Y7)	36.3	2.7	2.3	4.0	3.3	3.7	3.3	2.7	2.7	2.7	2.7	3.0
ABERDEEN	17.3	2.3	1.3	3.0	2.7	3.0	2.3	2.3	3.0	2.3	2.7	2.5
BOREAL	17.3	2.3	2.7	3.0	1.3	3.0	2.7	1.7	2.3	2.7	2.0	2.4
LSD VALUE	72.5	3.3	2.8	3.6	3.8	4.8	3.4	2.5	3.8	2.6	4.3	3.3
C.V. (%)	80.8	42.0	44.5	38.8	48.7	47.5	39.3	35.6	45.4	32.7	49.8	39.2

TABLE 4D. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS  
GROWN UNDER SHADE AT CARBONDALE, IL 1/  
2011 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	PERCENT COVER SUMMER	QUALITY RATINGS										MEAN
		MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
GOTHAM	80.0	4.7	4.7	5.3	6.7	6.3	6.0	5.3	6.7	6.3	6.7	5.9
BEACON (Z6300)	66.7	4.3	4.0	5.0	6.3	6.7	6.3	6.0	5.7	6.0	6.3	5.7
BIGHORN GT (PST-4BU3)	65.0	3.7	4.0	5.0	5.7	5.7	6.0	5.7	5.7	5.7	6.0	5.3
SPARTAN II	70.3	4.0	4.3	5.3	6.0	5.7	5.7	5.7	5.0	4.7	6.0	5.2
PST-4HES	56.7	4.7	3.7	4.7	5.3	5.3	4.3	5.0	6.3	5.7	6.3	5.1
SWORD (NC-HF1)	55.3	4.3	4.0	4.3	5.0	5.7	5.0	4.7	6.3	4.7	5.0	4.9
LSD VALUE	36.3	2.8	2.5	2.7	4.1	3.9	2.5	3.6	2.2	2.8	4.1	2.7
C.V. (%)	23.6	25.8	24.2	21.4	27.8	25.9	19.6	26.2	16.2	21.5	26.6	19.8

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.  
STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 5A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT ST. PAUL, MN 1/  
2011 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	PERCENT	PERCENT	PERCENT	QUALITY RATINGS						MEAN
		COVER SPRING	COVER SUMMER	COVER FALL	MAY	JUN	JUL	AUG	SEP	OCT	
PSG 50C3	5.3	91.7	90.0	90.0	5.7	5.7	4.7	4.3	5.3	6.0	5.3
TREAZURE II	4.3	85.0	93.3	93.3	5.0	5.7	4.7	5.0	5.7	6.0	5.3
INTRIGUE 2	5.0	75.0	86.7	91.7	5.0	5.0	4.7	4.3	5.3	6.0	5.1
LONGFELLOW 3 (IS-FRC-33)	5.3	80.0	90.0	88.3	5.0	5.3	3.0	4.7	5.3	6.3	4.9
BEACON (Z6300)	2.7	76.7	88.3	88.3	4.7	4.7	5.3	5.0	4.7	4.7	4.8
FAIRMONT (TCD)	6.0	71.7	86.7	90.0	4.0	4.7	4.7	4.0	5.3	6.0	4.8
CASCADE	6.0	90.0	88.3	90.0	5.0	5.0	4.3	3.7	4.7	5.7	4.7
WRIGLEY 2 (IS-FRC-35)	3.7	71.7	80.0	81.7	4.0	5.0	4.3	4.0	4.7	6.0	4.7
ZODIAC	5.7	73.3	90.0	91.7	4.3	5.0	4.0	4.0	5.3	5.7	4.7
IS-FRR-62	6.7	75.0	86.7	85.0	4.7	5.3	3.3	4.3	4.7	5.3	4.6
LACROSSE	6.0	80.0	88.3	90.0	3.7	5.3	4.0	4.3	4.7	5.7	4.6
PSG-5RM	7.0	78.3	88.3	88.3	4.7	5.0	4.0	4.0	5.0	5.0	4.6
RADAR (MVS-FRC-101)	5.7	66.7	88.3	85.0	4.3	4.7	4.3	4.0	5.0	5.3	4.6
GOTHAM	4.3	75.0	85.0	85.0	4.7	4.7	3.3	4.0	5.0	5.0	4.4
SWORD (NC-HF1)	4.5	73.3	88.3	78.3	4.3	4.0	4.7	4.3	4.7	4.7	4.4
PST-4HES	4.3	73.3	86.7	85.0	4.0	5.0	3.7	4.3	4.3	4.7	4.3
BOREAL	4.0	80.0	85.0	83.3	4.3	5.0	4.3	3.0	3.7	4.0	4.1
IS-FRR-51	6.3	73.3	86.7	83.3	4.0	4.7	4.0	3.7	3.7	4.7	4.1
SPARTAN II	4.0	61.7	71.7	68.3	4.0	4.7	4.3	3.7	4.0	3.7	4.1
BIGHORN GT (PST-4BU3)	8.0	70.0	83.3	86.7	3.3	4.0	3.7	4.0	4.3	4.7	4.0
NAVIGATOR II (MVS-OS-1)	7.0	58.3	75.0	80.0	3.7	3.7	4.7	3.0	4.0	4.3	3.9
PST-4CSD	6.3	75.0	81.7	73.3	3.7	4.3	4.0	3.0	4.0	4.3	3.9
ABERDEEN	6.0	75.0	85.0	80.0	3.7	4.0	4.0	3.0	4.0	3.7	3.7
EPIC	6.3	65.0	80.0	80.0	3.7	4.0	4.0	3.3	3.0	4.0	3.7
SHADEMASTER III (PST-48Y7)	7.3	61.7	70.0	73.3	3.3	3.3	4.3	3.0	3.7	3.7	3.6
LSD VALUE	1.4	42.8	26.6	26.5	2.7	3.0	4.0	2.2	2.5	2.4	2.5
C.V. (%)	15.7	18.5	10.8	11.5	22.4	21.2	26.1	22.0	21.5	21.5	18.6

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.  
STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.



TABLE 5B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT ST. PAUL, MN 1/  
2011 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	PERCENT	PERCENT	PERCENT	QUALITY RATINGS						MEAN
		COVER SPRING	COVER SUMMER	COVER FALL	MAY	JUN	JUL	AUG	SEP	OCT	
PSG 50C3	5.3	91.7	90.0	90.0	5.7	5.7	4.7	4.3	5.3	6.0	5.3
TREAZURE II	4.3	85.0	93.3	93.3	5.0	5.7	4.7	5.0	5.7	6.0	5.3
INTRIGUE 2	5.0	75.0	86.7	91.7	5.0	5.0	4.7	4.3	5.3	6.0	5.1
LONGFELLOW 3 (IS-FRC-33)	5.3	80.0	90.0	88.3	5.0	5.3	3.0	4.7	5.3	6.3	4.9
FAIRMONT (TCD)	6.0	71.7	86.7	90.0	4.0	4.7	4.7	4.0	5.3	6.0	4.8
CASCADE	6.0	90.0	88.3	90.0	5.0	5.0	4.3	3.7	4.7	5.7	4.7
WRIGLEY 2 (IS-FRC-35)	3.7	71.7	80.0	81.7	4.0	5.0	4.3	4.0	4.7	6.0	4.7
ZODIAC	5.7	73.3	90.0	91.7	4.3	5.0	4.0	4.0	5.3	5.7	4.7
LACROSSE	6.0	80.0	88.3	90.0	3.7	5.3	4.0	4.3	4.7	5.7	4.6
RADAR (MVS-FRC-101)	5.7	66.7	88.3	85.0	4.3	4.7	4.3	4.0	5.0	5.3	4.6
PST-4CSD	6.3	75.0	81.7	73.3	3.7	4.3	4.0	3.0	4.0	4.3	3.9
LSD VALUE	2.2	36.9	20.7	13.2	2.5	3.0	2.7	1.2	2.9	3.5	2.2
C.V. (%)	18.7	17.9	8.6	7.3	22.3	20.2	23.3	14.4	20.4	21.1	16.8

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.  
STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 5C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT ST. PAUL, MN 1/  
2011 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	MAY	JUN	QUALITY RATINGS				MEAN
							JUL	AUG	SEP	OCT	
IS-FRR-62	6.7	75.0	86.7	85.0	4.7	5.3	3.3	4.3	4.7	5.3	4.6
PSG-5RM	7.0	78.3	88.3	88.3	4.7	5.0	4.0	4.0	5.0	5.0	4.6
BOREAL	4.0	80.0	85.0	83.3	4.3	5.0	4.3	3.0	3.7	4.0	4.1
IS-FRR-51	6.3	73.3	86.7	83.3	4.0	4.7	4.0	3.7	3.7	4.7	4.1
NAVIGATOR II (MVS-OS-1)	7.0	58.3	75.0	80.0	3.7	3.7	4.7	3.0	4.0	4.3	3.9
ABERDEEN	6.0	75.0	85.0	80.0	3.7	4.0	4.0	3.0	4.0	3.7	3.7
EPIC	6.3	65.0	80.0	80.0	3.7	4.0	4.0	3.3	3.0	4.0	3.7
SHADEMASTER III (PST-48Y7)	7.3	61.7	70.0	73.3	3.3	3.3	4.3	3.0	3.7	3.7	3.6
LSD VALUE	1.4	40.1	27.4	27.9	2.4	1.7	3.2	2.2	1.9	2.4	1.9
C.V. (%)	12.0	22.2	13.6	12.8	24.0	18.7	28.2	25.8	20.9	22.9	18.8

TABLE 5D.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT ST. PAUL, MN 1/  
2011 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	GENETIC COLOR	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	MAY	JUN	QUALITY RATINGS				MEAN
							JUL	AUG	SEP	OCT	
BEACON (Z6300)	2.7	76.7	88.3	88.3	4.7	4.7	5.3	5.0	4.7	4.7	4.8
GOTHAM	4.3	75.0	85.0	85.0	4.7	4.7	3.3	4.0	5.0	5.0	4.4
SWORD (NC-HF1)	4.5	73.3	88.3	78.3	4.3	4.0	4.7	4.3	4.7	4.7	4.4
PST-4HES	4.3	73.3	86.7	85.0	4.0	5.0	3.7	4.3	4.3	4.7	4.3
SPARTAN II	4.0	61.7	71.7	68.3	4.0	4.7	4.3	3.7	4.0	3.7	4.1
BIGHORN GT (PST-4BU3)	8.0	70.0	83.3	86.7	3.3	4.0	3.7	4.0	4.3	4.7	4.0
LSD VALUE	1.3	31.4	23.6	33.2	2.4	3.3	2.9	3.3	3.1	2.7	2.7
C.V. (%)	14.6	17.7	12.1	17.0	23.6	28.7	30.0	31.1	26.6	23.9	24.6

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 6A. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF FINELEAF FESCUE CULTIVARS  
GROWN UNDER TRAFFIC AT MADISON, WI 1/  
2011 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	SPRING GREENUP	PERCENT COVER SPRING	PERCENT COVER FALL	QUALITY RATINGS						MEAN
				MAY	JUN	JUL	AUG	SEP	OCT	
TREASURE II	5.7	86.7	86.7	5.7	8.7	7.0	4.0	5.7	4.7	5.9
INTRIGUE 2	5.7	88.3	80.0	5.0	8.7	7.3	4.0	5.3	4.3	5.8
LONGFELLOW 3 (IS-FRC-33)	5.7	91.7	80.0	5.3	8.7	8.0	4.0	4.7	4.0	5.8
WRIGLEY 2 (IS-FRC-35)	6.0	86.7	71.7	5.0	8.3	7.3	4.3	5.0	4.0	5.7
FAIRMONT (TCD)	6.0	88.3	71.7	4.7	8.7	7.3	3.7	4.7	4.0	5.5
NAVIGATOR II (MVS-OS-1)	7.7	93.3	80.0	5.7	7.7	6.0	3.7	5.0	4.0	5.3
PSG 50C3	5.3	88.3	70.0	4.3	8.0	7.3	3.7	4.3	4.0	5.3
RADAR (MVS-FRC-101)	5.3	88.3	76.7	4.0	8.7	7.0	4.0	4.3	4.0	5.3
IS-FRR-62	6.7	81.7	81.7	5.0	6.7	5.7	4.3	5.0	4.0	5.1
ZODIAC	6.3	83.3	68.3	4.3	8.3	7.0	3.7	4.0	3.3	5.1
PSG-5RM	5.7	81.7	80.0	4.7	7.0	5.3	3.7	4.0	3.3	4.7
IS-FRR-51	6.3	85.0	70.0	4.3	6.3	6.0	3.3	4.0	3.7	4.6
LACROSSE	6.3	75.0	83.3	3.7	6.0	4.7	3.7	4.3	3.3	4.3
PST-4CSD	6.0	60.0	66.7	3.7	6.3	5.0	2.3	4.0	3.0	4.1
ABERDEEN	6.3	86.7	51.7	4.3	6.7	4.3	2.3	3.3	3.0	4.0
SPARTAN II	6.0	53.3	50.0	2.7	5.0	5.0	3.0	3.3	3.0	3.7
CASCADE	6.3	78.3	45.0	3.7	6.7	4.3	2.3	2.3	2.3	3.6
EPIC	6.0	66.7	38.3	3.3	6.0	3.7	2.3	3.0	2.3	3.4
SHADEMASTER III (PST-48Y7)	5.3	66.7	50.0	3.0	4.7	3.7	2.7	2.7	3.0	3.3
SWORD (NC-HF1)	7.3	46.7	48.3	2.0	5.3	3.7	3.0	2.3	2.3	3.1
BEACON (Z6300)	5.3	43.3	38.3	2.3	3.7	4.3	2.3	3.0	2.3	3.0
PST-4HES	6.0	36.7	36.7	2.0	5.0	3.7	2.7	2.3	2.0	2.9
BIGHORN GT (PST-4BU3)	5.0	43.3	30.0	1.7	4.3	3.0	3.0	2.3	2.3	2.8
GOTHAM	6.7	13.3	6.7	1.0	3.0	3.0	1.7	2.0	1.7	2.1
BOREAL	5.0	43.3	8.3	1.7	3.0	1.7	1.3	1.7	1.7	1.8
LSD VALUE	1.4	22.5	26.3	1.5	1.8	2.1	1.2	1.2	1.0	1.1
C.V. (%)	12.1	20.3	27.8	25.1	18.2	24.6	21.9	21.1	19.8	16.1

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.  
STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 6B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CHEWINGS FESCUE CULTIVARS  
GROWN UNDER TRAFFIC AT MADISON, WI 1/  
2011 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	SPRING GREENUP	PERCENT COVER SPRING	PERCENT COVER FALL	QUALITY RATINGS						MEAN
				MAY	JUN	JUL	AUG	SEP	OCT	
TREAZURE II	5.7	86.7	86.7	5.7	8.7	7.0	4.0	5.7	4.7	5.9
INTRIGUE 2	5.7	88.3	80.0	5.0	8.7	7.3	4.0	5.3	4.3	5.8
LONGFELLOW 3 (IS-FRC-33)	5.7	91.7	80.0	5.3	8.7	8.0	4.0	4.7	4.0	5.8
WRIGLEY 2 (IS-FRC-35)	6.0	86.7	71.7	5.0	8.3	7.3	4.3	5.0	4.0	5.7
FAIRMONT (TCD)	6.0	88.3	71.7	4.7	8.7	7.3	3.7	4.7	4.0	5.5
PSG 50C3	5.3	88.3	70.0	4.3	8.0	7.3	3.7	4.3	4.0	5.3
RADAR (MVS-FRC-101)	5.3	88.3	76.7	4.0	8.7	7.0	4.0	4.3	4.0	5.3
ZODIAC	6.3	83.3	68.3	4.3	8.3	7.0	3.7	4.0	3.3	5.1
LACROSSE	6.3	75.0	83.3	3.7	6.0	4.7	3.7	4.3	3.3	4.3
PST-4CSD	6.0	60.0	66.7	3.7	6.3	5.0	2.3	4.0	3.0	4.1
CASCADE	6.3	78.3	45.0	3.7	6.7	4.3	2.3	2.3	2.3	3.6
LSD VALUE	1.7	17.4	29.7	2.4	1.9	2.4	1.0	1.6	0.6	1.0
C.V. (%)	11.2	10.8	18.8	22.2	12.8	19.0	15.7	19.2	10.3	11.2

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 6C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  
GROWN UNDER TRAFFIC AT MADISON, WI 1/  
2011 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	SPRING GREENUP	PERCENT COVER SPRING	PERCENT COVER FALL	QUALITY RATINGS						MEAN
				MAY	JUN	JUL	AUG	SEP	OCT	
NAVIGATOR II (MVS-OS-1)	7.7	93.3	80.0	5.7	7.7	6.0	3.7	5.0	4.0	5.3
IS-FRR-62	6.7	81.7	81.7	5.0	6.7	5.7	4.3	5.0	4.0	5.1
PSG-5RM	5.7	81.7	80.0	4.7	7.0	5.3	3.7	4.0	3.3	4.7
IS-FRR-51	6.3	85.0	70.0	4.3	6.3	6.0	3.3	4.0	3.7	4.6
ABERDEEN	6.3	86.7	51.7	4.3	6.7	4.3	2.3	3.3	3.0	4.0
EPIC	6.0	66.7	38.3	3.3	6.0	3.7	2.3	3.0	2.3	3.4
SHADEMASTER III (PST-48Y7)	5.3	66.7	50.0	3.0	4.7	3.7	2.7	2.7	3.0	3.3
BOREAL	5.0	43.3	8.3	1.7	3.0	1.7	1.3	1.7	1.7	1.8
LSD VALUE	2.0	25.2	27.9	1.2	2.5	2.0	1.2	1.3	1.3	1.1
C.V. (%)	15.6	17.8	28.0	17.7	22.1	24.2	23.5	21.0	21.7	15.8

TABLE 6D. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF HARD FESCUE CULTIVARS  
GROWN UNDER TRAFFIC AT MADISON, WI 1/  
2011 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	SPRING GREENUP	PERCENT COVER SPRING	PERCENT COVER FALL	QUALITY RATINGS						MEAN
				MAY	JUN	JUL	AUG	SEP	OCT	
SPARTAN II	6.0	53.3	50.0	2.7	5.0	5.0	3.0	3.3	3.0	3.7
SWORD (NC-HF1)	7.3	46.7	48.3	2.0	5.3	3.7	3.0	2.3	2.3	3.1
BEACON (Z6300)	5.3	43.3	38.3	2.3	3.7	4.3	2.3	3.0	2.3	3.0
PST-4HES	6.0	36.7	36.7	2.0	5.0	3.7	2.7	2.3	2.0	2.9
BIGHORN GT (PST-4BU3)	5.0	43.3	30.0	1.7	4.3	3.0	3.0	2.3	2.3	2.8
GOTHAM	6.7	13.3	6.7	1.0	3.0	3.0	1.7	2.0	1.7	2.1
LSD VALUE	1.0	50.6	52.1	2.4	3.3	3.8	2.2	1.9	2.2	2.3
C.V. (%)	8.9	55.5	65.5	52.0	32.1	41.5	35.4	31.7	39.0	33.5

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.  
STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 7A.

MEAN TURFGRASS QUALITY RATINGS OF FINELEAF FESCUE CULTIVARS  
AT PALO ALTO (NON-MOWED), CA 1/  
2011 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
NAVIGATOR II (MVS-OS-1)	8.3	8.0	7.7	7.3	7.3	7.0	6.3	6.3	7.0	7.3	8.0	8.0	7.4
ABERDEEN	7.7	7.3	7.3	6.7	6.7	7.3	7.0	6.7	7.3	7.3	7.3	7.3	7.2
IS-FRR-62	7.7	7.0	6.7	7.0	6.3	7.3	6.7	7.0	7.7	7.3	7.7	7.3	7.1
WRIGLEY 2 (IS-FRC-35)	7.3	7.0	6.7	7.0	6.3	6.3	7.3	7.0	7.3	7.3	7.7	6.7	7.0
BOREAL	7.0	6.3	7.0	7.0	7.0	7.3	6.7	7.0	7.0	6.7	7.0	7.3	6.9
INTRIGUE 2	7.0	7.0	7.0	6.3	6.3	6.7	6.7	7.0	7.7	7.0	7.3	7.0	6.9
IS-FRR-51	7.3	6.0	7.0	6.0	6.3	6.3	6.3	6.3	7.7	7.7	7.7	7.7	6.9
PSG-5RM	7.0	6.3	6.3	6.7	6.0	6.7	6.7	7.0	8.0	7.7	7.7	7.3	6.9
CASCADE	7.0	6.3	6.0	6.3	6.0	6.3	5.7	6.7	7.7	7.7	7.7	7.7	6.8
PST-4CSD	7.0	6.7	6.7	6.7	6.0	6.3	6.7	6.3	7.3	6.7	7.0	7.0	6.7
TREASURE II	6.0	5.7	6.3	6.0	5.7	6.0	6.7	7.0	7.7	7.7	8.0	7.3	6.7
SHADEMASTER III (PST-48Y7)	6.7	6.7	6.7	5.7	6.3	5.7	6.0	6.0	6.7	7.3	8.0	8.0	6.6
BEACON (Z6300)	7.0	6.3	6.0	6.5	6.0	6.5	7.0	6.0	5.5	5.5	6.5	7.0	6.5
EPIC	7.3	6.7	6.3	6.3	6.0	6.3	6.0	6.0	6.3	6.3	7.3	7.3	6.5
FAIRMONT (TCD)	6.3	6.3	6.3	6.0	6.3	6.7	6.0	6.3	7.0	6.7	7.0	7.3	6.5
BIGHORN GT (PST-4BU3)	6.3	6.0	5.7	6.7	6.7	7.0	7.0	6.3	5.7	5.7	6.3	6.7	6.3
LACROSSE	6.3	6.0	5.7	6.0	6.0	5.7	6.0	6.3	6.7	6.7	7.0	7.0	6.3
LONGFELLOW 3 (IS-FRC-33)	6.3	5.7	5.7	6.0	5.3	5.7	5.7	6.0	6.3	6.7	7.7	7.3	6.2
PST-4HES	6.3	6.0	6.0	6.5	7.0	6.5	7.0	6.5	6.5	6.0	6.5	7.0	6.2
SWORD (NC-HF1)	6.0	5.7	5.7	6.5	7.0	7.5	7.0	6.5	6.5	6.5	7.0	7.5	6.2
PSG 50C3	6.3	5.7	6.0	4.7	4.7	5.0	5.7	6.3	7.0	7.0	7.7	7.3	6.1
GOTHAM	6.0	5.0	5.0	5.3	6.0	6.7	7.0	6.7	6.3	6.0	6.0	6.3	6.0
SPARTAN II	6.3	5.3	5.0	6.5	6.5	7.5	7.0	6.0	6.0	6.0	6.5	6.5	6.0
ZODIAC	6.0	6.3	6.3	6.0	5.0	5.0	4.7	5.3	6.3	6.3	7.3	7.0	6.0
RADAR (MVS-FRC-101)	5.3	5.3	6.0	5.0	4.0	4.3	5.0	5.3	6.0	6.0	6.7	7.0	5.5
LSD VALUE	1.4	1.5	1.9	2.7	3.0	2.2	4.0	2.8	1.4	0.8	1.0	1.0	1.2
C.V. (%)	10.9	12.0	13.3	15.1	18.0	15.4	18.5	13.1	10.1	6.7	7.2	6.6	8.4

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 7B.

MEAN TURFGRASS QUALITY RATINGS OF CHEWINGS FESCUE CULTIVARS  
AT PALO ALTO (NON-MOWED), CA 1/  
2011 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
WRIGLEY 2 (IS-FRC-35)	7.3	7.0	6.7	7.0	6.3	6.3	7.3	7.0	7.3	7.3	7.7	6.7	7.0
INTRIGUE 2	7.0	7.0	7.0	6.3	6.3	6.7	6.7	7.0	7.7	7.0	7.3	7.0	6.9
CASCADE	7.0	6.3	6.0	6.3	6.0	6.3	5.7	6.7	7.7	7.7	7.7	7.7	6.8
PST-4CSD	7.0	6.7	6.7	6.7	6.0	6.3	6.7	6.3	7.3	6.7	7.0	7.0	6.7
TREAZURE II	6.0	5.7	6.3	6.0	5.7	6.0	6.7	7.0	7.7	7.7	8.0	7.3	6.7
FAIRMONT (TCD)	6.3	6.3	6.3	6.0	6.3	6.7	6.0	6.3	7.0	6.7	7.0	7.3	6.5
LACROSSE	6.3	6.0	5.7	6.0	6.0	5.7	6.0	6.3	6.7	6.7	7.0	7.0	6.3
LONGFELLOW 3 (IS-FRC-33)	6.3	5.7	5.7	6.0	5.3	5.7	5.7	6.0	6.3	6.7	7.7	7.3	6.2
PSG 50C3	6.3	5.7	6.0	4.7	4.7	5.0	5.7	6.3	7.0	7.0	7.7	7.3	6.1
ZODIAC	6.0	6.3	6.3	6.0	5.0	5.0	4.7	5.3	6.3	6.3	7.3	7.0	6.0
RADAR (MVS-FRC-101)	5.3	5.3	6.0	5.0	4.0	4.3	5.0	5.3	6.0	6.0	6.7	7.0	5.5
LSD VALUE	2.3	2.0	3.0	3.3	4.0	3.1	3.4	2.0	1.8	0.9	1.3	1.0	1.6
C.V. (%)	14.2	13.6	16.3	20.6	25.9	21.1	21.8	13.2	11.3	6.8	7.7	5.6	10.5

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 7C.

MEAN TURFGRASS QUALITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  
AT PALO ALTO (NON-MOWED), CA 1/  
2011 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
NAVIGATOR II (MVS-OS-1)	8.3	8.0	7.7	7.3	7.3	7.0	6.3	6.3	7.0	7.3	8.0	8.0	7.4
ABERDEEN	7.7	7.3	7.3	6.7	6.7	7.3	7.0	6.7	7.3	7.3	7.3	7.3	7.2
IS-FRR-62	7.7	7.0	6.7	7.0	6.3	7.3	6.7	7.0	7.7	7.3	7.7	7.3	7.1
BOREAL	7.0	6.3	7.0	7.0	7.0	7.3	6.7	7.0	7.0	6.7	7.0	7.3	6.9
IS-FRR-51	7.3	6.0	7.0	6.0	6.3	6.3	6.3	6.3	7.7	7.7	7.7	7.7	6.9
PSG-5RM	7.0	6.3	6.3	6.7	6.0	6.7	6.7	7.0	8.0	7.7	7.7	7.3	6.9
SHADEMASTER III (PST-48Y7)	6.7	6.7	6.7	5.7	6.3	5.7	6.0	6.0	6.7	7.3	8.0	8.0	6.6
EPIC	7.3	6.7	6.3	6.3	6.0	6.3	6.0	6.0	6.3	6.3	7.3	7.3	6.5
LSD VALUE	1.3	1.2	1.5	1.3	1.2	1.5	3.3	2.1	1.1	0.6	0.9	1.2	0.6
C.V. (%)	8.1	9.0	9.3	9.3	8.8	10.2	18.5	12.7	7.4	4.9	5.3	6.6	4.5

TABLE 7D.

MEAN TURFGRASS QUALITY RATINGS OF HARD FESCUE CULTIVARS  
AT PALO ALTO (NON-MOWED), CA 1/  
2011 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/												MEAN
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
BEACON (Z6300)	7.0	6.3	6.0	6.5	6.0	6.5	7.0	6.0	5.5	5.5	6.5	7.0	6.5
BIGHORN GT (PST-4BU3)	6.3	6.0	5.7	6.7	6.7	7.0	7.0	6.3	5.7	5.7	6.3	6.7	6.3
PST-4HES	6.3	6.0	6.0	6.5	7.0	6.5	7.0	6.5	6.5	6.0	6.5	7.0	6.2
SWORD (NC-HF1)	6.0	5.7	5.7	6.5	7.0	7.5	7.0	6.5	6.5	6.5	7.0	7.5	6.2
GOTHAM	6.0	5.0	5.0	5.3	6.0	6.7	7.0	6.7	6.3	6.0	6.0	6.3	6.0
SPARTAN II	6.3	5.3	5.0	6.5	6.5	7.5	7.0	6.0	6.0	6.0	6.5	6.5	6.0
LSD VALUE	1.4	1.8	1.7	1.8	1.4	1.5	2.6	2.2	1.7	1.4	1.5	1.6	1.5
C.V. (%)	9.6	13.8	12.7	11.0	8.2	8.1	12.8	12.3	10.4	8.8	8.8	8.9	9.7

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.



TABLE 8A. GENETIC COLOR RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2011 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

NAME	IL1	MN1	NE1	NJ2	PA1	UT1	VA1	WA3	MEAN
BIGHORN GT (PST-4BU3)	5.7	8.0	8.0	8.0	9.0	6.7	6.0	4.7	7.0
PSG-5RM	5.7	7.0	7.0	7.7	6.3	8.7	6.3	4.3	6.6
SWORD (NC-HF1)	5.7	4.5	8.0	7.7	8.7	6.7	6.0	5.7	6.6
GOTHAM	5.7	4.3	7.3	7.7	8.0	7.0	6.3	5.7	6.5
NAVIGATOR II (MVS-OS-1)	5.7	7.0	7.0	7.0	5.3	8.7	6.7	4.7	6.5
CASCADE	6.3	6.0	7.0	8.3	7.0	6.7	5.7	4.3	6.4
SPARTAN II	5.3	4.0	7.7	8.0	7.3	6.3	6.0	6.0	6.3
SHADEMASTER III (PST-48Y7)	6.0	7.3	7.0	6.7	5.7	8.0	6.3	3.7	6.3
LACROSSE	6.3	6.0	7.0	7.7	5.7	7.3	6.3	4.0	6.3
IS-FRR-62	5.7	6.7	7.0	7.3	4.7	7.3	6.3	4.7	6.2
ZODIAC	6.0	5.7	6.7	7.7	6.0	7.0	6.3	4.3	6.2
LONGFELLOW 3 (IS-FRC-33)	6.3	5.3	6.7	6.7	5.7	7.3	6.7	5.0	6.2
PST-4HES	6.0	4.3	7.3	6.7	7.3	5.7	6.3	6.0	6.2
RADAR (MVS-FRC-101)	6.7	5.7	6.7	7.3	5.0	7.0	6.0	5.3	6.2
IS-FRR-51	6.3	6.3	6.7	7.0	4.3	8.7	6.3	3.7	6.2
PSG 50C3	6.0	5.3	7.3	7.0	6.3	7.0	5.7	4.7	6.2
ABERDEEN	5.3	6.0	7.0	7.0	6.3	7.7	6.0	3.7	6.1
FAIRMONT (TCD)	5.7	6.0	7.0	7.7	4.3	6.3	6.3	4.7	6.0
EPIC	5.3	6.3	6.7	7.7	5.0	7.7	5.0	3.7	5.9
PST-4CSD	5.7	6.3	6.0	7.0	6.0	6.0	5.3	4.3	5.8
BEACON (Z6300)	5.3	2.7	7.3	5.3	6.3	6.0	6.3	6.0	5.7
BOREAL	5.3	4.0	6.7	8.0	6.0	7.0	4.7	3.0	5.6
INTRIGUE 2	5.3	5.0	7.0	4.7	4.7	6.3	5.7	5.0	5.5
WRIGLEY 2 (IS-FRC-35)	5.7	3.7	7.0	4.7	5.3	5.7	5.3	4.7	5.3
TREAZURE II	5.7	4.3	6.7	4.7	5.0	5.3	5.7	4.3	5.2
LSD VALUE	1.4	1.4	0.7	1.4	1.2	1.0	1.0	0.9	0.4
C.V. (%)	14.7	15.7	6.4	12.3	12.5	8.9	10.2	12.2	11.6

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 8B. GENETIC COLOR RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2011 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/								MEAN
	IL1	MN1	NE1	NJ2	PA1	UT1	VA1	WA3	
CASCADE	6.3	6.0	7.0	8.3	7.0	6.7	5.7	4.3	6.4
LACROSSE	6.3	6.0	7.0	7.7	5.7	7.3	6.3	4.0	6.3
ZODIAC	6.0	5.7	6.7	7.7	6.0	7.0	6.3	4.3	6.2
LONGFELLOW 3 (IS-FRC-33)	6.3	5.3	6.7	6.7	5.7	7.3	6.7	5.0	6.2
RADAR (MVS-FRC-101)	6.7	5.7	6.7	7.3	5.0	7.0	6.0	5.3	6.2
PSG 50C3	6.0	5.3	7.3	7.0	6.3	7.0	5.7	4.7	6.2
FAIRMONT (TCD)	5.7	6.0	7.0	7.7	4.3	6.3	6.3	4.7	6.0
PST-4CSD	5.7	6.3	6.0	7.0	6.0	6.0	5.3	4.3	5.8
INTRIGUE 2	5.3	5.0	7.0	4.7	4.7	6.3	5.7	5.0	5.5
WRIGLEY 2 (IS-FRC-35)	5.7	3.7	7.0	4.7	5.3	5.7	5.3	4.7	5.3
TREAZURE II	5.7	4.3	6.7	4.7	5.0	5.3	5.7	4.3	5.2
LSD VALUE	1.6	1.6	0.8	1.1	1.3	1.0	0.9	0.8	0.4
C.V. (%)	16.8	18.0	7.2	10.1	14.4	9.6	9.3	10.7	12.2

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 8C. GENETIC COLOR RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2011 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/								
	IL1	MN1	NE1	NJ2	PA1	UT1	VA1	WA3	MEAN
PSG-5RM	5.7	7.0	7.0	7.7	6.3	8.7	6.3	4.3	6.6
NAVIGATOR II (MVS-OS-1)	5.7	7.0	7.0	7.0	5.3	8.7	6.7	4.7	6.5
SHADEMASTER III (PST-48Y7)	6.0	7.3	7.0	6.7	5.7	8.0	6.3	3.7	6.3
IS-FRR-62	5.7	6.7	7.0	7.3	4.7	7.3	6.3	4.7	6.2
IS-FRR-51	6.3	6.3	6.7	7.0	4.3	8.7	6.3	3.7	6.2
ABERDEEN	5.3	6.0	7.0	7.0	6.3	7.7	6.0	3.7	6.1
EPIC	5.3	6.3	6.7	7.7	5.0	7.7	5.0	3.7	5.9
BOREAL	5.3	4.0	6.7	8.0	6.0	7.0	4.7	3.0	5.6
LSD VALUE	1.3	1.2	0.6	1.5	1.3	1.0	1.0	1.2	0.4
C.V. (%)	14.4	11.6	5.1	13.1	14.5	7.7	10.3	18.8	11.7

TABLE 8D. GENETIC COLOR RATINGS OF HARD FESCUE CULTIVARS 1/  
2011 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/								
	IL1	MN1	NE1	NJ2	PA1	UT1	VA1	WA3	MEAN
BIGHORN GT (PST-4BU3)	5.7	8.0	8.0	8.0	9.0	6.7	6.0	4.7	7.0
SWORD (NC-HF1)	5.7	4.5	8.0	7.7	8.7	6.7	6.0	5.7	6.6
GOTHAM	5.7	4.3	7.3	7.7	8.0	7.0	6.3	5.7	6.5
SPARTAN II	5.3	4.0	7.7	8.0	7.3	6.3	6.0	6.0	6.3
PST-4HES	6.0	4.3	7.3	6.7	7.3	5.7	6.3	6.0	6.2
BEACON (Z6300)	5.3	2.7	7.3	5.3	6.3	6.0	6.3	6.0	5.7
LSD VALUE	0.8	1.4	0.8	1.7	1.0	1.0	1.1	0.7	0.4
C.V. (%)	9.4	17.4	6.2	14.2	8.0	9.8	11.5	7.2	10.5

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 9A. SPRING GREENUP RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2011 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/

NAME	IL1	NE1	NJ2	NY1	RI1	UT1	MEAN
ABERDEEN	5.3	7.0	5.0	4.0	5.7	6.0	5.5
EPIC	7.0	8.0	5.0	2.7	4.7	5.0	5.4
BOREAL	4.7	7.3	5.7	2.3	8.0	3.7	5.3
IS-FRR-51	5.0	6.0	5.0	3.0	4.7	7.3	5.2
CASCADE	5.7	4.3	5.3	3.3	6.7	4.7	5.0
NAVIGATOR II (MVS-OS-1)	4.7	5.7	5.3	2.3	5.3	6.3	4.9
IS-FRR-62	5.0	5.0	6.0	2.7	4.3	6.3	4.9
RADAR (MVS-FRC-101)	4.0	4.0	4.7	4.3	4.7	6.7	4.7
FAIRMONT (TCD)	4.3	3.0	4.0	4.0	5.3	7.0	4.6
SHADEMASTER III (PST-48Y7)	5.0	5.3	5.0	2.0	4.7	5.3	4.6
LACROSSE	5.0	4.7	4.7	2.3	5.0	5.3	4.5
PSG-5RM	4.3	5.7	5.0	2.0	4.0	5.7	4.4
INTRIGUE 2	4.3	3.7	4.0	3.0	6.3	4.7	4.3
PSG 50C3	3.7	3.0	4.3	4.0	5.0	5.7	4.3
PST-4CSD	3.3	3.7	5.0	3.0	7.0	3.7	4.3
WRIGLEY 2 (IS-FRC-35)	3.0	4.0	4.3	3.3	5.3	5.3	4.2
LONGFELLOW 3 (IS-FRC-33)	3.3	4.3	4.3	3.3	4.7	5.0	4.2
TREAZURE II	4.3	3.3	4.3	2.0	5.0	4.7	3.9
BIGHORN GT (PST-4BU3)	5.0	5.3	4.0	2.3	4.0	3.0	3.9
ZODIAC	4.0	2.7	3.7	3.0	4.7	4.7	3.8
GOTHAM	4.3	0.0	4.0	2.7	4.0	4.7	3.3
SPARTAN II	4.0	0.0	4.7	3.3	3.0	4.0	3.2
PST-4HES	5.7	0.0	5.0	2.7	1.7	3.3	3.1
SWORD (NC-HF1)	4.0	0.0	4.3	3.7	3.3	3.0	3.1
BEACON (Z6300)	4.0	0.0	4.3	2.7	2.3	4.0	2.9
LSD VALUE	1.2	2.3	1.0	1.4	2.7	2.0	0.8
C.V. (%)	16.8	36.8	13.1	28.7	35.0	24.5	26.8

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 9B. SPRING GREENUP RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2011 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/

NAME	IL1	NE1	NJ2	NY1	RI1	UT1	MEAN
CASCADE	5.7	4.3	5.3	3.3	6.7	4.7	5.0
RADAR (MVS-FRC-101)	4.0	4.0	4.7	4.3	4.7	6.7	4.7
FAIRMONT (TCD)	4.3	3.0	4.0	4.0	5.3	7.0	4.6
LACROSSE	5.0	4.7	4.7	2.3	5.0	5.3	4.5
INTRIGUE 2	4.3	3.7	4.0	3.0	6.3	4.7	4.3
PSG 50C3	3.7	3.0	4.3	4.0	5.0	5.7	4.3
PST-4CSD	3.3	3.7	5.0	3.0	7.0	3.7	4.3
WRIGLEY 2 (IS-FRC-35)	3.0	4.0	4.3	3.3	5.3	5.3	4.2
LONGFELLOW 3 (IS-FRC-33)	3.3	4.3	4.3	3.3	4.7	5.0	4.2
TREAZURE II	4.3	3.3	4.3	2.0	5.0	4.7	3.9
ZODIAC	4.0	2.7	3.7	3.0	4.7	4.7	3.8
LSD VALUE	1.1	2.0	0.9	1.3	1.1	1.8	0.6
C.V. (%)	17.0	33.0	13.0	24.0	12.8	21.6	20.3

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 9C. SPRING GREENUP RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2011 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/

NAME	IL1	NE1	NJ2	NY1	RI1	UT1	MEAN
ABERDEEN	5.3	7.0	5.0	4.0	5.7	6.0	5.5
EPIC	7.0	8.0	5.0	2.7	4.7	5.0	5.4
BOREAL	4.7	7.3	5.7	2.3	8.0	3.7	5.3
IS-FRR-51	5.0	6.0	5.0	3.0	4.7	7.3	5.2
NAVIGATOR II (MVS-OS-1)	4.7	5.7	5.3	2.3	5.3	6.3	4.9
IS-FRR-62	5.0	5.0	6.0	2.7	4.3	6.3	4.9
SHADEMASTER III (PST-48Y7)	5.0	5.3	5.0	2.0	4.7	5.3	4.6
PSG-5RM	4.3	5.7	5.0	2.0	4.0	5.7	4.4
LSD VALUE	1.2	1.9	1.1	1.0	3.3	2.1	0.8
C.V. (%)	14.4	19.0	12.9	24.6	38.1	23.2	23.4

TABLE 9D. SPRING GREENUP RATINGS OF HARD FESCUE CULTIVARS 1/  
2011 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/

NAME	IL1	NE1	NJ2	NY1	RI1	UT1	MEAN
BIGHORN GT (PST-4BU3)	5.0	5.3	4.0	2.3	4.0	3.0	3.9
GOTHAM	4.3	0.0	4.0	2.7	4.0	4.7	3.3
SPARTAN II	4.0	0.0	4.7	3.3	3.0	4.0	3.2
PST-4HES	5.7	0.0	5.0	2.7	1.7	3.3	3.1
SWORD (NC-HF1)	4.0	0.0	4.3	3.7	3.3	3.0	3.1
BEACON (Z6300)	4.0	0.0	4.3	2.7	2.3	4.0	2.9
LSD VALUE	1.4	3.1	0.9	1.9	3.8	2.0	1.0
C.V. (%)	19.6	217.0	13.2	40.0	77.9	34.6	46.3

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 10A. SPRING DENSITY RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2011 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	VA1
IS-FRR-51	8.3
FAIRMONT (TCD)	8.0
INTRIGUE 2	8.0
IS-FRR-62	8.0
PSG-5RM	8.0
LONGFELLOW 3 (IS-FRC-33)	7.7
RADAR (MVS-FRC-101)	7.7
SHADEMASTER III (PST-48Y7)	7.7
NAVIGATOR II (MVS-OS-1)	7.3
PSG 50C3	7.3
PST-4CSD	7.0
SPARTAN II	7.0
SWORD (NC-HF1)	7.0
BEACON (Z6300)	6.7
GOTHAM	6.7
TREAZURE II	6.7
ABERDEEN	6.3
BIGHORN GT (PST-4BU3)	6.3
CASCADE	6.3
EPIC	6.3
WRIGLEY 2 (IS-FRC-35)	6.3
ZODIAC	6.3
BOREAL	6.0
PST-4HES	6.0
LACROSSE	5.7
LSD VALUE	1.1
C.V. (%)	9.6

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 10B. SPRING DENSITY RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2011 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	VA1
FAIRMONT (TCD)	8.0
INTRIGUE 2	8.0
LONGFELLOW 3 (IS-FRC-33)	7.7
RADAR (MVS-FRC-101)	7.7
PSG 50C3	7.3
PST-4CSD	7.0
TREAZURE II	6.7
CASCADE	6.3
WRIGLEY 2 (IS-FRC-35)	6.3
ZODIAC	6.3
LACROSSE	5.7
LSD VALUE	0.9
C.V. (%)	8.2

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.



TABLE 10C. SPRING DENSITY RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2011 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	VA1
IS-FRR-51	8.3
IS-FRR-62	8.0
PSG-5RM	8.0
SHADEMASTER III (PST-48Y7)	7.7
NAVIGATOR II (MVS-OS-1)	7.3
ABERDEEN	6.3
EPIC	6.3
BOREAL	6.0
LSD VALUE	1.2
C.V. (%)	10.5

TABLE 10D. SPRING DENSITY RATINGS OF HARD FESCUE CULTIVARS 1/  
2011 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

NAME	VA1
SPARTAN II	7.0
SWORD (NC-HF1)	7.0
BEACON (Z6300)	6.7
GOTHAM	6.7
BIGHORN GT (PST-4BU3)	6.3
PST-4HES	6.0
LSD VALUE	1.1
C.V. (%)	10.7

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 11A. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2011 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MD1	MN1	RI1	MEAN
PSG 50C3	93.3	94.7	96.0	94.7
TREAZURE II	91.3	91.7	99.0	94.0
ZODIAC	93.3	91.7	94.3	93.1
LACROSSE	83.3	90.0	97.7	90.3
BEACON (Z6300)	88.0	80.0	96.0	88.0
RADAR (MVS-FRC-101)	91.7	74.7	97.7	88.0
CASCADE	83.3	93.3	86.7	87.8
FAIRMONT (TCD)	91.7	76.3	94.3	87.4
INTRIGUE 2	90.0	73.3	99.0	87.4
LONGFELLOW 3 (IS-FRC-33)	90.0	71.3	99.0	86.8
BIGHORN GT (PST-4BU3)	93.0	88.3	76.3	85.9
WRIGLEY 2 (IS-FRC-35)	88.3	68.3	99.0	85.2
PST-4CSD	81.7	73.3	96.0	83.7
PSG-5RM	80.0	66.7	94.7	80.4
PST-4HES	86.7	73.3	80.0	80.0
NAVIGATOR II (MVS-OS-1)	86.7	65.0	86.7	79.4
GOTHAM	90.0	60.0	83.0	77.7
SWORD (NC-HF1)	91.7	46.7	91.7	76.7
SHADEMASTER III (PST-48Y7)	71.7	76.7	76.7	75.0
IS-FRR-51	55.0	76.7	80.0	70.6
ABERDEEN	61.7	73.3	66.7	67.2
SPARTAN II	86.7	31.7	83.0	67.1
BOREAL	78.3	83.3	30.0	63.9
EPIC	46.7	78.3	65.0	63.3
IS-FRR-62	65.0	46.7	61.3	57.7
LSD VALUE	16.3	29.3	24.6	13.9
C.V. (%)	12.3	24.7	18.0	18.6

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 11B. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2011 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MD1	MN1	RI1	MEAN
PSG 50C3	93.3	94.7	96.0	94.7
TREAZURE II	91.3	91.7	99.0	94.0
ZODIAC	93.3	91.7	94.3	93.1
LACROSSE	83.3	90.0	97.7	90.3
RADAR (MVS-FRC-101)	91.7	74.7	97.7	88.0
CASCADE	83.3	93.3	86.7	87.8
FAIRMONT (TCD)	91.7	76.3	94.3	87.4
INTRIGUE 2	90.0	73.3	99.0	87.4
LONGFELLOW 3 (IS-FRC-33)	90.0	71.3	99.0	86.8
WRIGLEY 2 (IS-FRC-35)	88.3	68.3	99.0	85.2
PST-4CSD	81.7	73.3	96.0	83.7
LSD VALUE	9.6	28.9	7.3	10.5
C.V. (%)	6.7	22.0	4.7	12.7

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 11C. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2011 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MD1	MN1	RI1	MEAN
PSG-5RM	80.0	66.7	94.7	80.4
NAVIGATOR II (MVS-OS-1)	86.7	65.0	86.7	79.4
SHADEMASTER III (PST-48Y7)	71.7	76.7	76.7	75.0
IS-FRR-51	55.0	76.7	80.0	70.6
ABERDEEN	61.7	73.3	66.7	67.2
BOREAL	78.3	83.3	30.0	63.9
EPIC	46.7	78.3	65.0	63.3
IS-FRR-62	65.0	46.7	61.3	57.7
LSD VALUE	22.9	27.2	36.6	17.0
C.V. (%)	20.9	23.9	32.4	26.3

TABLE 11D. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF HARD FESCUE CULTIVARS 1/  
2011 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MD1	MN1	RI1	MEAN
BEACON (Z6300)	88.0	80.0	96.0	88.0
BIGHORN GT (PST-4BU3)	93.0	88.3	76.3	85.9
PST-4HES	86.7	73.3	80.0	80.0
GOTHAM	90.0	60.0	83.0	77.7
SWORD (NC-HF1)	91.7	46.7	91.7	76.7
SPARTAN II	86.7	31.7	83.0	67.1
LSD VALUE	15.4	32.6	25.3	14.7
C.V. (%)	10.7	32.0	18.5	19.9

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 12A. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2011 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	MN1	NE1	RI1	MEAN
PSG 50C3	93.3	53.3	96.3	81.0
TREAZURE II	95.0	53.3	93.3	80.6
BIGHORN GT (PST-4BU3)	93.3	66.7	73.3	77.8
BEACON (Z6300)	91.7	43.3	96.0	77.0
PSG-5RM	83.3	50.0	97.7	77.0
LONGFELLOW 3 (IS-FRC-33)	91.7	40.0	99.0	76.9
ZODIAC	95.0	36.7	99.0	76.9
IS-FRR-62	81.7	53.3	91.3	75.4
LACROSSE	95.0	33.3	97.7	75.3
NAVIGATOR II (MVS-OS-1)	85.0	60.0	76.7	73.9
WRIGLEY 2 (IS-FRC-35)	73.3	50.0	96.0	73.1
INTRIGUE 2	93.3	36.7	88.0	72.7
FAIRMONT (TCD)	91.7	26.7	97.7	72.0
RADAR (MVS-FRC-101)	93.3	20.0	99.0	70.8
IS-FRR-51	90.0	46.7	75.0	70.6
SHADEMASTER III (PST-48Y7)	90.0	36.7	80.0	68.9
CASCADE	90.0	33.3	80.0	67.8
PST-4CSD	80.0	40.0	81.7	67.2
PST-4HES	85.0	43.3	71.7	66.7
EPIC	91.7	50.0	53.3	65.0
SPARTAN II	75.0	36.7	83.3	65.0
GOTHAM	80.0	36.7	78.0	64.9
SWORD (NC-HF1)	66.7	26.7	91.3	61.6
ABERDEEN	90.0	40.0	53.3	61.1
BOREAL	90.0	56.7	13.3	53.3
LSD VALUE	17.6	29.2	15.8	12.5
C.V. (%)	12.5	42.5	11.9	19.0

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 12B. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2011 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	MN1	NE1	RI1	MEAN
PSG 50C3	93.3	53.3	96.3	81.0
TREAZURE II	95.0	53.3	93.3	80.6
LONGFELLOW 3 (IS-FRC-33)	91.7	40.0	99.0	76.9
ZODIAC	95.0	36.7	99.0	76.9
LACROSSE	95.0	33.3	97.7	75.3
WRIGLEY 2 (IS-FRC-35)	73.3	50.0	96.0	73.1
INTRIGUE 2	93.3	36.7	88.0	72.7
FAIRMONT (TCD)	91.7	26.7	97.7	72.0
RADAR (MVS-FRC-101)	93.3	20.0	99.0	70.8
CASCADE	90.0	33.3	80.0	67.8
PST-4CSD	80.0	40.0	81.7	67.2
LSD VALUE	17.8	35.7	11.2	13.8
C.V. (%)	12.3	57.7	7.4	20.1

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 12C. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2011 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	MN1	NE1	RI1	MEAN
PSG-5RM	83.3	50.0	97.7	77.0
IS-FRR-62	81.7	53.3	91.3	75.4
NAVIGATOR II (MVS-OS-1)	85.0	60.0	76.7	73.9
IS-FRR-51	90.0	46.7	75.0	70.6
SHADEMASTER III (PST-48Y7)	90.0	36.7	80.0	68.9
EPIC	91.7	50.0	53.3	65.0
ABERDEEN	90.0	40.0	53.3	61.1
BOREAL	90.0	56.7	13.3	53.3
LSD VALUE	16.1	25.0	13.5	10.9
C.V. (%)	11.4	31.6	12.4	17.2

TABLE 12D. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF HARD FESCUE CULTIVARS 1/  
2011 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	MN1	NE1	RI1	MEAN
BIGHORN GT (PST-4BU3)	93.3	66.7	73.3	77.8
BEACON (Z6300)	91.7	43.3	96.0	77.0
PST-4HES	85.0	43.3	71.7	66.7
SPARTAN II	75.0	36.7	83.3	65.0
GOTHAM	80.0	36.7	78.0	64.9
SWORD (NC-HF1)	66.7	26.7	91.3	61.6
LSD VALUE	19.1	19.7	23.8	12.1
C.V. (%)	14.5	29.0	18.0	19.0

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 13A. PERCENT LIVING GROUND COVER (FALL) RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2011 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/				
NAME	IL1	MN1	NJ2	MEAN
RADAR (MVS-FRC-101)	96.0	94.7	97.7	96.1
LONGFELLOW 3 (IS-FRC-33)	97.7	93.3	97.0	96.0
ZODIAC	94.7	94.7	98.0	95.8
PSG 50C3	92.7	94.7	96.7	94.7
PSG-5RM	97.7	88.3	98.0	94.7
FAIRMONT (TCD)	89.7	93.3	98.7	93.9
SHADEMASTER III (PST-48Y7)	94.7	91.7	95.3	93.9
TREAZURE II	89.7	95.0	97.0	93.9
NAVIGATOR II (MVS-OS-1)	93.0	90.0	96.0	93.0
LACROSSE	91.3	95.0	91.0	92.4
CASCADE	97.7	88.3	90.7	92.2
IS-FRR-51	92.7	90.0	92.7	91.8
INTRIGUE 2	81.7	91.7	97.3	90.2
EPIC	89.7	91.7	74.0	85.1
WRIGLEY 2 (IS-FRC-35)	85.0	68.3	98.7	84.0
IS-FRR-62	69.3	83.3	98.3	83.7
PST-4CSD	93.0	68.3	88.3	83.2
ABERDEEN	83.3	91.7	70.0	81.7
PST-4HES	16.7	86.7	95.7	66.3
BEACON (Z6300)	5.0	91.7	97.7	64.8
BOREAL	56.7	81.7	55.3	64.6
SPARTAN II	10.0	75.0	96.0	60.3
SWORD (NC-HF1)	13.3	68.3	97.7	59.8
GOTHAM	6.7	73.3	96.0	58.7
BIGHORN GT (PST-4BU3)	13.3	93.3	60.0	55.6
LSD VALUE	21.3	19.6	9.4	10.1
C.V. (%)	18.9	14.0	6.4	13.2

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.



TABLE 13B. PERCENT LIVING GROUND COVER (FALL) RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2011 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/				
NAME	IL1	MN1	NJ2	MEAN
RADAR (MVS-FRC-101)	96.0	94.7	97.7	96.1
LONGFELLOW 3 (IS-FRC-33)	97.7	93.3	97.0	96.0
ZODIAC	94.7	94.7	98.0	95.8
PSG 50C3	92.7	94.7	96.7	94.7
FAIRMONT (TCD)	89.7	93.3	98.7	93.9
TREAZURE II	89.7	95.0	97.0	93.9
LACROSSE	91.3	95.0	91.0	92.4
CASCADE	97.7	88.3	90.7	92.2
INTRIGUE 2	81.7	91.7	97.3	90.2
WRIGLEY 2 (IS-FRC-35)	85.0	68.3	98.7	84.0
PST-4CSD	93.0	68.3	88.3	83.2
LSD VALUE	14.9	20.8	6.9	8.8
C.V. (%)	10.1	14.5	4.5	10.3

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 13C. PERCENT LIVING GROUND COVER (FALL) RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2011 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/				
NAME	IL1	MN1	NJ2	MEAN
PSG-5RM	97.7	88.3	98.0	94.7
SHADEMASTER III (PST-48Y7)	94.7	91.7	95.3	93.9
NAVIGATOR II (MVS-OS-1)	93.0	90.0	96.0	93.0
IS-FRR-51	92.7	90.0	92.7	91.8
EPIC	89.7	91.7	74.0	85.1
IS-FRR-62	69.3	83.3	98.3	83.7
ABERDEEN	83.3	91.7	70.0	81.7
BOREAL	56.7	81.7	55.3	64.6
LSD VALUE	32.0	13.3	14.2	12.5
C.V. (%)	23.5	9.4	10.4	15.6

TABLE 13D. PERCENT LIVING GROUND COVER (FALL) RATINGS OF HARD FESCUE CULTIVARS 1/  
2011 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/				
NAME	IL1	MN1	NJ2	MEAN
PST-4HES	16.7	86.7	95.7	66.3
BEACON (Z6300)	5.0	91.7	97.7	64.8
SPARTAN II	10.0	75.0	96.0	60.3
SWORD (NC-HF1)	13.3	68.3	97.7	59.8
GOTHAM	6.7	73.3	96.0	58.7
BIGHORN GT (PST-4BU3)	13.3	93.3	60.0	55.6
LSD VALUE	11.1	23.8	3.4	8.8
C.V. (%)	63.4	18.2	2.3	15.6

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 14A. WINTER COLOR RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2011 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/

NAME	WA3
BEACON (Z6300)	6.0
GOTHAM	5.7
PST-4HES	5.7
SPARTAN II	5.7
SWORD (NC-HF1)	5.3
FAIRMONT (TCD)	4.7
RADAR (MVS-FRC-101)	4.7
WRIGLEY 2 (IS-FRC-35)	4.7
BIGHORN GT (PST-4BU3)	4.3
INTRIGUE 2	4.3
LACROSSE	4.3
LONGFELLOW 3 (IS-FRC-33)	4.3
EPIC	4.0
IS-FRR-62	4.0
NAVIGATOR II (MVS-OS-1)	4.0
PSG 50C3	4.0
PSG-5RM	4.0
PST-4CSD	4.0
SHADEMASTER III (PST-48Y7)	4.0
TREAZURE II	4.0
ZODIAC	4.0
ABERDEEN	3.7
CASCADE	3.7
IS-FRR-51	3.3
BOREAL	2.7
LSD VALUE	0.9
C.V. (%)	12.1

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 14B. WINTER COLOR RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2011 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/

NAME	WA3
FAIRMONT (TCD)	4.7
RADAR (MVS-FRC-101)	4.7
WRIGLEY 2 (IS-FRC-35)	4.7
INTRIGUE 2	4.3
LACROSSE	4.3
LONGFELLOW 3 (IS-FRC-33)	4.3
PSG 50C3	4.0
PST-4CSD	4.0
TREAZURE II	4.0
ZODIAC	4.0
CASCADE	3.7
LSD VALUE	1.0
C.V. (%)	14.8

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 14C. WINTER COLOR RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2011 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/

NAME	WA3
EPIC	4.0
IS-FRR-62	4.0
NAVIGATOR II (MVS-0S-1)	4.0
PSG-5RM	4.0
SHADEMASTER III (PST-48Y7)	4.0
ABERDEEN	3.7
IS-FRR-51	3.3
BOREAL	2.7
LSD VALUE	0.6
C.V. (%)	9.5

TABLE 14D. WINTER COLOR RATINGS OF HARD FESCUE CULTIVARS 1/  
2011 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/

NAME	WA3
BEACON (Z6300)	6.0
GOTHAM	5.7
PST-4HES	5.7
SPARTAN II	5.7
SWORD (NC-HF1)	5.3
BIGHORN GT (PST-4BU3)	4.3
LSD VALUE	0.8
C.V. (%)	9.7

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 15A. PERCENT WINTER KILL RATINGS OF FINELEAF FESCUE CULTIVARS 1/  
2011 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/

NAME	MN1
SPARTAN II	95.0
IS-FRR-62	88.3
GOTHAM	80.0
PSG-5RM	71.7
SWORD (NC-HF1)	69.7
PST-4HES	60.0
ABERDEEN	56.7
IS-FRR-51	56.7
NAVIGATOR II (MVS-0S-1)	56.7
PST-4CSD	56.7
EPIC	53.3
INTRIGUE 2	51.7
LONGFELLOW 3 (IS-FRC-33)	48.3
RADAR (MVS-FRC-101)	46.7
BEACON (Z6300)	43.3
SHADEMASTER III (PST-48Y7)	43.3
FAIRMONT (TCD)	40.0
WRIGLEY 2 (IS-FRC-35)	39.7
BIGHORN GT (PST-4BU3)	28.3
BOREAL	25.0
LACROSSE	10.0
PSG 50C3	1.7
TREAZURE II	1.7
ZODIAC	1.7
CASCADE	0.0
LSD VALUE	54.1
C.V. (%)	74.7

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 15B. PERCENT WINTER KILL RATINGS OF CHEWINGS FESCUE CULTIVARS 1/  
2011 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/

NAME	MN1
PST-4CSD	56.7
INTRIGUE 2	51.7
LONGFELLOW 3 (IS-FRC-33)	48.3
RADAR (MVS-FRC-101)	46.7
FAIRMONT (TCD)	40.0
WRIGLEY 2 (IS-FRC-35)	39.7
LACROSSE	10.0
PSG 50C3	1.7
TREAZURE II	1.7
ZODIAC	1.7
CASCADE	0.0
LSD VALUE	49.3
C.V. (%)	113.1

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 15C. PERCENT WINTER KILL RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS 1/  
2011 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/

NAME	MN1
IS-FRR-62	88.3
PSG-5RM	71.7
ABERDEEN	56.7
IS-FRR-51	56.7
NAVIGATOR II (MVS-OS-1)	56.7
EPIC	53.3
SHADEMASTER III (PST-48Y7)	43.3
BOREAL	25.0
LSD VALUE	56.0
C.V. (%)	61.6

TABLE 15D. PERCENT WINTER KILL RATINGS OF HARD FESCUE CULTIVARS 1/  
2011 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/

NAME	MN1
SPARTAN II	95.0
GOTHAM	80.0
SWORD (NC-HF1)	69.7
PST-4HES	60.0
BEACON (Z6300)	43.3
BIGHORN GT (PST-4BU3)	28.3
LSD VALUE	59.9
C.V. (%)	59.3

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.



TABLE 16A. DOLLAR SPOT RATINGS OF FESCUE CULTIVARS 1/  
2011 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	NJ2	PA1	RI1	MEAN
LONGFELLOW 3 (IS-FRC-33)	8.3	9.0	8.7	8.7
INTRIGUE 2	8.7	9.0	8.0	8.6
TREAZURE II	7.7	9.0	8.7	8.4
RADAR (MVS-FRC-101)	8.3	8.7	7.7	8.2
PSG 50C3	7.0	9.0	8.3	8.1
FAIRMONT (TCD)	7.3	9.0	8.0	8.1
ZODIAC	8.0	9.0	7.0	8.0
PSG-5RM	6.7	9.0	7.7	7.8
WRIGLEY 2 (IS-FRC-35)	7.7	7.7	8.0	7.8
BEACON (Z6300)	6.0	7.7	9.0	7.6
SWORD (NC-HF1)	6.3	9.0	7.3	7.6
SPARTAN II	6.0	8.7	7.7	7.4
PST-4CSD	5.7	7.3	8.7	7.2
LACROSSE	5.7	9.0	6.3	7.0
IS-FRR-62	6.3	8.0	5.3	6.6
PST-4HES	5.3	9.0	5.3	6.6
NAVIGATOR II (MVS-OS-1)	6.7	7.7	5.0	6.4
BIGHORN GT (PST-4BU3)	5.0	8.7	5.7	6.4
SHADEMASTER III (PST-48Y7)	6.0	8.7	4.3	6.3
CASCADE	6.0	8.7	4.0	6.2
GOTHAM	5.0	8.0	4.7	5.9
BOREAL	3.3	9.0	1.0	4.4
IS-FRR-51	4.3	5.0	4.0	4.4
ABERDEEN	3.7	5.7	3.3	4.2
EPIC	4.0	3.3	2.3	3.2
LSD VALUE	1.6	2.0	2.4	1.2
C.V. (%)	15.6	15.3	24.3	18.4

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 16B. DOLLAR SPOT RATINGS OF CHEWINGS CULTIVARS 1/  
2011 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	NJ2	PA1	RI1	MEAN
LONGFELLOW 3 (IS-FRC-33)	8.3	9.0	8.7	8.7
INTRIGUE 2	8.7	9.0	8.0	8.6
TREAZURE II	7.7	9.0	8.7	8.4
RADAR (MVS-FRC-101)	8.3	8.7	7.7	8.2
PSG 50C3	7.0	9.0	8.3	8.1
FAIRMONT (TCD)	7.3	9.0	8.0	8.1
ZODIAC	8.0	9.0	7.0	8.0
WRIGLEY 2 (IS-FRC-35)	7.7	7.7	8.0	7.8
PST-4CSD	5.7	7.3	8.7	7.2
LACROSSE	5.7	9.0	6.3	7.0
CASCADE	6.0	8.7	4.0	6.2
LSD VALUE	1.3	1.8	2.2	1.0
C.V. (%)	10.7	13.2	18.2	14.4

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 16C. DOLLAR SPOT RATINGS OF STRONG CREEPING RED CULTIVARS 1/  
2011 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	NJ2	PA1	RI1	MEAN
PSG-5RM	6.7	9.0	7.7	7.8
IS-FRR-62	6.3	8.0	5.3	6.6
NAVIGATOR II (MVS-OS-1)	6.7	7.7	5.0	6.4
SHADEMASTER III (PST-48Y7)	6.0	8.7	4.3	6.3
BOREAL	3.3	9.0	1.0	4.4
IS-FRR-51	4.3	5.0	4.0	4.4
ABERDEEN	3.7	5.7	3.3	4.2
EPIC	4.0	3.3	2.3	3.2
LSD VALUE	2.1	2.7	2.6	1.4
C.V. (%)	24.9	23.7	39.0	28.1

TABLE 16D. DOLLAR SPOT RATINGS OF HARD CULTIVARS 1/  
2011 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	NJ2	PA1	RI1	MEAN
BEACON (Z6300)	6.0	7.7	9.0	7.6
SWORD (NC-HF1)	6.3	9.0	7.3	7.6
SPARTAN II	6.0	8.7	7.7	7.4
PST-4HES	5.3	9.0	5.3	6.6
BIGHORN GT (PST-4BU3)	5.0	8.7	5.7	6.4
GOTHAM	5.0	8.0	4.7	5.9
LSD VALUE	1.3	0.9	2.6	1.0
C.V. (%)	13.9	6.8	24.4	15.8

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 17A. RED THREAD RATINGS OF FESCUE CULTIVARS 1/  
2011 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

NAME	NY1	PA1	MEAN
FAIRMONT (TCD)	5.7	8.3	7.0
LONGFELLOW 3 (IS-FRC-33)	4.7	8.3	6.5
PSG 50C3	5.0	8.0	6.5
PSG-5RM	4.7	8.3	6.5
WRIGLEY 2 (IS-FRC-35)	5.0	8.0	6.5
INTRIGUE 2	4.7	8.0	6.3
TREAZURE II	4.7	8.0	6.3
ZODIAC	4.3	8.3	6.3
PST-4CSD	4.7	7.7	6.2
IS-FRR-62	5.0	6.7	5.8
RADAR (MVS-FRC-101)	3.3	8.0	5.7
CASCADE	4.3	7.0	5.7
SWORD (NC-HF1)	3.3	7.7	5.5
LACROSSE	4.0	6.7	5.3
SHADEMASTER III (PST-48Y7)	5.0	5.7	5.3
BIGHORN GT (PST-4BU3)	3.3	7.3	5.3
IS-FRR-51	5.3	5.3	5.3
GOTHAM	2.3	8.0	5.2
BOREAL	6.0	4.3	5.2
NAVIGATOR II (MVS-OS-1)	5.3	5.0	5.2
PST-4HES	2.0	7.7	4.8
SPARTAN II	1.7	7.7	4.7
EPIC	5.3	4.0	4.7
BEACON (Z6300)	1.3	7.7	4.5
ABERDEEN	4.7	4.0	4.3
LSD VALUE	1.6	1.5	1.1
C.V. (%)	23.7	13.4	17.2

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 17B. RED THREAD RATINGS OF CHEWINGS CULTIVARS 1/  
2011 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/			
NAME	NY1	PA1	MEAN
FAIRMONT (TCD)	5.7	8.3	7.0
LONGFELLOW 3 (IS-FRC-33)	4.7	8.3	6.5
PSG 50C3	5.0	8.0	6.5
WRIGLEY 2 (IS-FRC-35)	5.0	8.0	6.5
INTRIGUE 2	4.7	8.0	6.3
TREAZURE II	4.7	8.0	6.3
ZODIAC	4.3	8.3	6.3
PST-4CSD	4.7	7.7	6.2
RADAR (MVS-FRC-101)	3.3	8.0	5.7
CASCADE	4.3	7.0	5.7
LACROSSE	4.0	6.7	5.3
LSD VALUE	1.8	0.8	1.0
C.V. (%)	24.4	6.3	13.9

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 17C. RED THREAD RATINGS OF STRONG CREEPING RED CULTIVARS 1/  
2011 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

NAME	NY1	PA1	MEAN
PSG-5RM	4.7	8.3	6.5
IS-FRR-62	5.0	6.7	5.8
SHADEMASTER III (PST-48Y7)	5.0	5.7	5.3
IS-FRR-51	5.3	5.3	5.3
BOREAL	6.0	4.3	5.2
NAVIGATOR II (MVS-OS-1)	5.3	5.0	5.2
EPIC	5.3	4.0	4.7
ABERDEEN	4.7	4.0	4.3
LSD VALUE	1.5	2.4	1.4
C.V. (%)	17.7	27.4	23.3

TABLE 17D. RED THREAD RATINGS OF HARD CULTIVARS 1/  
2011 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

NAME	NY1	PA1	MEAN
SWORD (NC-HF1)	3.3	7.7	5.5
BIGHORN GT (PST-4BU3)	3.3	7.3	5.3
GOTHAM	2.3	8.0	5.2
PST-4HES	2.0	7.7	4.8
SPARTAN II	1.7	7.7	4.7
BEACON (Z6300)	1.3	7.7	4.5
LSD VALUE	1.4	0.8	0.8
C.V. (%)	37.8	6.9	14.5

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 18A. RED THREAD RATINGS OF FINELEAF FESCUE CULTIVARS  
AT PUYALLUP, WA 1/  
2011 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

NAME	APRIL	MAY	JUNE	MEAN
SPARTAN II	6.3	8.0	6.7	7.0
BEACON (Z6300)	6.7	8.0	5.7	6.8
GOTHAM	7.3	7.7	4.7	6.6
PST-4HES	6.7	7.3	5.3	6.4
SWORD (NC-HF1)	6.7	8.0	4.7	6.4
PSG 50C3	5.3	6.3	6.0	5.9
PSG-5RM	6.0	6.7	5.0	5.9
BIGHORN GT (PST-4BU3)	6.0	7.7	3.7	5.8
NAVIGATOR II (MVS-OS-1)	5.3	6.0	5.0	5.4
IS-FRR-62	5.7	5.3	4.3	5.1
WRIGLEY 2 (IS-FRC-35)	5.0	5.3	4.7	5.0
LONGFELLOW 3 (IS-FRC-33)	5.0	4.7	5.0	4.9
SHADEMASTER III (PST-48Y7)	4.3	5.7	4.7	4.9
RADAR (MVS-FRC-101)	5.3	4.7	4.0	4.7
TREAZURE II	5.3	5.0	3.7	4.7
IS-FRR-51	5.3	4.0	4.3	4.6
ZODIAC	4.0	5.0	4.7	4.6
INTRIGUE 2	4.0	4.3	5.0	4.4
CASCADE	4.7	4.3	3.7	4.2
FAIRMONT (TCD)	5.0	3.7	3.7	4.1
ABERDEEN	4.0	4.0	4.0	4.0
PST-4CSD	4.0	3.3	3.7	3.7
BOREAL	3.0	3.3	4.0	3.4
LACROSSE	3.7	3.7	3.0	3.4
EPIC	4.0	2.7	3.0	3.2
LSD VALUE	1.5	1.3	1.3	0.9
C.V. (%)	17.4	16.1	17.4	11.2

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 18B. RED THREAD RATINGS OF CHEWINGS FESCUE CULTIVARS  
 AT PUYALLUP, WA 1/  
 2011 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

NAME	APRIL	MAY	JUNE	MEAN
PSG 50C3	5.3	6.3	6.0	5.9
WRIGLEY 2 (IS-FRC-35)	5.0	5.3	4.7	5.0
LONGFELLOW 3 (IS-FRC-33)	5.0	4.7	5.0	4.9
RADAR (MVS-FRC-101)	5.3	4.7	4.0	4.7
TREAZURE II	5.3	5.0	3.7	4.7
ZODIAC	4.0	5.0	4.7	4.6
INTRIGUE 2	4.0	4.3	5.0	4.4
CASCADE	4.7	4.3	3.7	4.2
FAIRMONT (TCD)	5.0	3.7	3.7	4.1
PST-4CSD	4.0	3.3	3.7	3.7
LACROSSE	3.7	3.7	3.0	3.4
LSD VALUE	1.3	2.0	1.3	1.0
C.V. (%)	14.0	21.3	17.1	12.2

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.



TABLE 18C. RED THREAD RATINGS OF STRONG CREEPING RED FESCUE CULTIVARS  
AT PUYALLUP, WA 1/  
2011 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

NAME	APRIL	MAY	JUNE	MEAN
PSG-5RM	6.0	6.7	5.0	5.9
NAVIGATOR II (MVS-OS-1)	5.3	6.0	5.0	5.4
IS-FRR-62	5.7	5.3	4.3	5.1
SHADEMASTER III (PST-48Y7)	4.3	5.7	4.7	4.9
IS-FRR-51	5.3	4.0	4.3	4.6
ABERDEEN	4.0	4.0	4.0	4.0
BOREAL	3.0	3.3	4.0	3.4
EPIC	4.0	2.7	3.0	3.2
LSD VALUE	1.7	1.7	1.0	0.9
C.V. (%)	19.3	20.5	12.3	11.1

TABLE 18D. RED THREAD RATINGS OF HARD FESCUE CULTIVARS  
AT PUYALLUP, WA 1/  
2011 DATA

RED THREAD RATINGS 1-9; 9=NO DISEASE 2/

NAME	APRIL	MAY	JUNE	MEAN
SPARTAN II	6.3	8.0	6.7	7.0
BEACON (Z6300)	6.7	8.0	5.7	6.8
GOTHAM	7.3	7.7	4.7	6.6
PST-4HES	6.7	7.3	5.3	6.4
SWORD (NC-HF1)	6.7	8.0	4.7	6.4
BIGHORN GT (PST-4BU3)	6.0	7.7	3.7	5.8
LSD VALUE	3.3	1.0	2.4	1.7
C.V. (%)	19.7	5.6	21.9	10.9

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.